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Catch up on the latest conversions for your machine including Super Sprint to the Amstrad, Levisthan on the Amiga, and PC Gunship

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Helt-Heiro serfermance in F-15 Strike Eagle

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120 Special Offers

Up to £4 discount on each of the games listed here.
Chuck your stocking out of the window and grab a pillowease instead.

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This magazine is going places. Make sure you don't get left behind, and grab an astonishing £10 extra discount off those mail-order bargains at the same time.

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In conjunction with Casio ACE brings you the chance to walk away with either a DG20 digital guitar, or the latest NTR00 MIDI synthesiser.

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Al last The definitive buyer's guide to the world of home computing. The games AND the machines to play them on, updated morthly by the people who know for the people who matter So just shack, and let your pinkies do the walking.

elcome...

...to our biggest issue yet. We may only be tour this month, but already some of the ACE staff teel as it they're in line for a telegram from the Queen. We thought we'd take a quick break to fill you in on what's going

First, there's the ACE Pink Pages. We've long felf there to be a real need for a proper consumer guide to the home micro industry...now there is. Whether you're after games or a new computer, these pages will point you in the right direction. This isn't just a one-off – the Pink Pages will be there every month, whenever you need them, and always bang up-to-date. What's more, from park month well be including epitherists as well.

Secondly, there's the ACE 1988 Diary. We thought it would be good to get something on the cover that lasted a little longer than your average tree gift — we hope the 'lasting interest' on this one will take you through to Christmas 1988, which gets it a very respectable PIC curve, and an ACE Rating in the high high refrest.

Thirdly, even though this is our biggest and best issue yet, we're beavening away on a whole host of projects for the coming year. We're playing things close to our chests just now, but stand by for a series of innivations that will not only give you a bigger and better magazine, but also one in which you, the readers, can become more dosely involved.

Finally, we want to thank YOU for the best Christmas present we've ever had – the enormous response we've had from readers has proved to us beyond doubt that there IS a market for intelligent, insightful, and entertaining coverage of home computing. Slick with us – we won't let you down.

The ACE Team

AOVANCED COMPUTER ENTERTAINMENT

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What awaite? What technological peris and strange diabolic

COMING SOON

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TERROMPODS

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All available for 512k colour, Atan ST, Commodore Amiga



I it moves - iroense it seems to have become a software adequin the past three years. In the coming months well be seeing an moreage in the number of littles. culled from the TV screen, after what is generally termed a "poor start" In this held Remember Knight Rider? SuperGran? It's a Knackouf?

Until recently the held has been almost exclusively left to micro. versions of (mainly Amendan) car toons, such as Thundercals, Centunons Gobets and Road Runner is concerned that the demas should capture the atmosphere of the ongo nal - so much so that they've seril Blockbusters out to programming team ODE for a complete reams Domark's Mark Straction claims that the rewrite is to update rainer than reprove the onemal code and ques tions contained, but he does admit that Domark cidn't take up an option to sell Macsens EastEnders. because it was just so drandful?.

Domark plans to release four or five Ities a year on the TV Games label the first of which will be Title

TELLY TIE-INS

The ones we'd like to see

If you can make a game out of Blockbus(ers then you must be able to make a game out of just about enything. Here are a lew proprammes we'd like to see become programs

Breakfast Time - you'd need Amiga graphics to really get the benefit of Frank Bough's puliovers

The Epilogue -Bishop Rambo runs amok with his deadly crozrer Wogan - can you out-talk Tarry over a

year of gruefing ahows? Floyd on Fish - lillet as many turbol as you can in the time limit; but make sure you keep your write glass topped up!

Blue Peter - 'and here's a gema I saved earlier

atecs of the extra

Coronation Street - Newton and Ridley are on sinke, you as Ena Sharples, race against the clock to find a buttle of milk stout Saint and Greavsie - 'a game of two halves. But the led done well don't be Sami?"

Krypton Factor with Every Second County appearing in the New Year

Although the company is loan no lowards ouz programmes at the moment, Mark Strachan says that we'll look into any games that are popular at the time' and oted Blind Date and a new programme Strike it Lucky as shows whose computer potential had Interested him

Prantia erroyed some success. with a micro version of the children's cartoon senes Trep Door, and plans to release a second Trap Door

game to coincide with the new TV senss next year The humour mithe show and the nature of the char actors leant itself to





Knightmare

Also coming up is the micro ver-sion of Knightmans, the success Lif Anglia TV rote playing adven-Alari ST m January

show already uses computer graphics but from two Space ward Supernova computers

has attempted to circumvent this turning for each change of local styles - you could play it more as an arcade bash or Ireal II as a puzzle-solving arcade adven-

sult for advice at any stage. The caulian the bad will urge you to

has now hoished and II is not yet ar, astimated figures show that of around 4 million per apisods series must look rosy Not to

- arcades, comics, toys - and the TV phoins are emphasised less m the micro conversions The new batch is lad by Domark, which has taken over the defunct Macsen range Including Blockbusines, Countdown, Buil's

Many of these have additional links

Eye and other quiz gernes Dottark has created a new

label, TV Games, for the triles and

Code Masters Plus

d in sarty Deci et Sike, by the C it, on Amstrad and Sc m at £4.99

paters are ST and Amig one of Grand Prix Sim The price isn't yet o hed, but is likely to be £9.99



Ris and Analy face to tack

ANDY CAPP

varyona's favounta lavabout should be available on micro by mid-Decembar And who else would if be from but Mirrorsoh? Your erm is to survive a week in Andy's tough life, that means getting and staying drunk, scrounging money, cheal ing on your wro Flo', spending timo in the betting shop and dodging the rent man Development house Bitter Animation are kenong light ipped about how you actually play the game but they will reveal that it contains a certain amount of 'cartoon-style' violence as well as multiple

Talking computer

In gargospouler technology is no joke if you're blind; even i you can buch-bye, you can buch-bye, how can be the stores in o check if you can buch-bye, with a comparable of the store in t

keys, and has a buildin word processing package. As letters and keys, and has a buildin word processing package. As letters and keysd in the speech circuity repeats to the oner what letter has been typed. Furthermore, the Eureta can be connected to an ISM openpatible PC to allow the blind to see the same screen-oriented programms at the slighted.

The machine, designed by a Czech exile and built in Australia, is marketed in the UK by Techno-Vision Systems. It should cost around \$1400.

Super-tape kills CD?

usi when we are getting used to spraining a mare 500 megabytes sround mode out state-of-the-art CO ROMS, the bothes come up with Digital Audio Tape – a tille wedper tall the size of a normal music cassion that post of the pocket calculator probably carril marde sums tall big, but neight parties of the post of the pocket calculator probably carril marde sums tall big, but neight parties of the post o

Since the search for a relative rend-write CD ROM has been a difficult one, and the prices are around \$2500 for a drown and \$100-plus for the blank destar you can sell with DAT just infroduced in Japan at around \$250 plue \$10 for blank testar you can sell with tapes, is a samplen more attractive. Expess, so a smally involved the state of the self-with the self-wit

0 0"

Super casserbs super lape, super price... Hewlett Puckent's DAT casserbs in half the sion of a standard music casserbs, but holes 1.2 pipulyras (I 250291000 bytes) and can access say the within 30 seconds

get that a price tag of three grand is

not out of character with Hewlett

Packard who are not recovered for

their presence in the budget market

the job and things could really

start spinning Typical

applications

would be

storage of

digitised pic-

hires, as well

Get someone like Jack Tramiel on

writing Story have delayed that lausch of their Dopla Audio Tape und in the face of mauning opposit too from the music industry who believe the system will be used for graining music from compact disk. We don't recall this sort of problem adopting the misconduction of music cassistes — would it be unfair to suggest that this is because DAT is a disprises import and an area in which European fame tag fail to the problem of the system of the transition, the warragio in the meanthmy, the warragio to the system of the system of the transition, the warragio to the system of the system of the transition, the warragio to the transition, the warragio to the transition, the warragio to the system of the transition, the warragio to the transition, the warragio transition the transition transition.

going to set back any olars to lines the herchology onto computers. Sanyo, Awai, and Hitach, aira all wanting for the go shread to referable their DAT music systems on whee (airandy on sais in dapan), but land the lass dies down their seems little lakelihood oil any real headway being made in either music or computing?

oval DAT in the music business is

Infocom revolution

Infocon are dropping Inali prices to £18 99 for most littles and £24 99 for the 10p-end retrainers* Previous procelevate ranged between £24 99 and £34 99.

The company are also promising some revolution-

ry miseases in the New Yaar bul lips remean sealed folins lime being We're putling our money on graphicsbased garens, since the compeny is known to have been impressed by link Magnetic Scrotis products and have receitly included culumentary graphic (on-screan mapping) to that Islams game Beyond Zerx (revewed by the Pilipm in this issue).

Bad news howevar lot Amstrad owners.

Recent Infocom refeases lot libe CPC range have been regularly delayed, and libe whole question of Amstrad Impoom products is under review Will line ownpary Continue to support libs 3-bit Amstrad machines?

to support the 8-bit Ametrad machinea? Probably not admits Activision's Clare Hirsch Better start saving to something beetler, chaps

Head in a spirit

coto tape using the same method as Irala employed by vision recorders Instead of Jaying the information down in a long line along the longth of the lape, the using a rapidy relating sections the telepits of the lape, the using a rapidy relating recorded on a helical scan basis laying tracks across the telepits for the using a rapidy relating recorded in the department of the lapids formation of the department of the lapids formation of the department of the lapids of the la

Hewlett-Packard currently have a co-development deal with Sonty to produce a OAT une and eithough this could end up cealing around \$3000, the idea is that volume sales, in the maste influstry could lawer the cost of production and these lower costs could then benefit the composts market Also, laft not forcomposts market Also, laft not for-

as audo and deta information of clean information of clean information of clean of c

o Piracy

Of course there's a bug in

The lattuce All the time of

Advanced Computer Entertainment

50 and 22

YOUR MERO

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able to ample

irain marries

hits Mastertronic were steadily increasing their misrests in the computer entertainment held (see last month's Mastertronic Emoire Buildmg story) little did we know that Mastertronic themselves were being wooed ~ and won - by Richard Branson's Virgin

The records' computer games/safelite TV/publishing conglomerate paid millions for a 45% stake in the budget and ercades company. Virgin's Nick Alexander explained the move in terros of Mastertronic's expertise in fields where Virgin is inexpenenced -

notably, budget software arcade mechines and the US distribution of software

The first fruits of the traigen for the LIK software buyer are likely to be a budget version of Virgin's hit Dan Dani game den't be too surprised if other Virgin titles find their way on to Maniartropic's let

Virgin's Way Forward Virgin are rether more deeply

mivolved in the consumer exploitation of new technology than a look at Acton Force or Rebel might suggest. Richard Branson now has interests in satellite TV electronic publishing, traditional publishing computer games, CD-ROM and interactive video

In fact, so microsted is the company in these fields that they've just appointed a general manager for their Interactive Video Division. William Beckelt's first production for the company is an educational game based on Sir Ranulf Florings Transglobe Expedition, which traversed both Arctic and Antarctic regions

Can Dave Brail Wirgin parse to ge Masterfrong

This educational 'game' will be available initially only for the BBC mester system - to take advantage of the equipment many schools have installed in



order to run the BBC's Domosday project (a latter-day version of the Domesday book, with a plethore of maps and statistics, as well as 52 one digitised pictures on two fuservision disks)

Richard Brancon is what may well be a computer-designed and knitted guillave

Seckett describes the Transglobe program as a 'multiple role playing adverture' whose educational value has mithe need for the players to plan, navigate and cope with melecrological and logistical factors. With 75 minutes playing time per side and up to 50,000 dighted piccys, it sounds well worth a

But are we thely to see anythms like if for home consumption on other machines? Beckett Ihrika so - but probably not for a couple of years. Even then, because the technology is in its infancy, both the hardware and the software are likely to be pretty expensive, the disks could well cost between E50 and £200 while you would also need a laser disk player to interface to your micro. But new technology has a habit of letting rapidly m price if shough people went to buy it, and it may not be too long before you'll be able to explore the frozen wasses from the comfort of your own armcheir

Snippets...

Star Wars

C64 £9.95 cs £12.95dk

Take control of your X wing fighter in this conversion of a four year old coin-op Blast the Empire's fighters before you pensirals the defenses of the Deatheter You'll still need the Force with you if you want to hit that elusive exhaust duct Should be m the shops as you read this

Demon Stalker

29 95 £1 4 95 dk



This one or two player arcade ection game offers the player 99 challenging levels of mazes mon sters magic and messages. Make it to level 100 and you'll find Celvrak the Demon ready for battle. Should be evalable in time for Christmas

Octopolis

Combining parallax scroling shoot-'em up with challenoing platform encounters - plus monsters and evil eyes. This one or two player number should be on the streets for the start of the new year

Cosmic Causeway

This follow up to the highly success: ful Traiblazer game features multi-

drectional acrolling and the chance for the player to buy again useful borus which could get him out of a tight spot. Should be in the shops as you read this

Resolution Nexus

Bo Jangeborg's latest is definition not another Falsioh! Resolution is a strategre, horizontally scroling shoot-em up in which the player that to save the world from a manic mining corporation determined to desiroy of the Earth's natural resources This anymonmentally sound geme should be available in time for Christmas

Tetris Mirrorsoft

This abstract shape meripulation game, played m real time, should be headed our way at the start of the new year

Platoon

The leaned conversion of Oliver Slone's blockbusting film of Amencan Army life during the Vretnam War should be fitting the streets, deck, did or whatever in the new year.

Pela Caoka's follow-up to Micro neut 7 is a horizontally-scription shoot-em up viewed in three dimensions. The game allows the player to move his craft from the fore ground to the beckground of the screen Set on the moon Earthlight should be out in time for Christmas

T-Punner Nemia

Set on a Mannes training platform in space. This arcade advertise gives The player a Marble Madnese-type view of the game area. After 300 years of lying idle the central computer has gone haywire - and it's up to you to sort it out Should be ready for Christmas

Rastan Soga

Hot from the ercades, Rastan Sage puls the player m control of the muscle-bound, long harred, sword wielding hero of the orcade machine Look out for it leading onto the software shelves of Christ



MEN ONLY?

Why the girls aren't joining in the fun



et any lent

he natron registd in amazesteril on Wed I1th November when it was ravealed that Debby - in the Brookside spin-oil Damon and Debby - with writing a computer game. Coming soon to an Amstrad on the telly could be Deb by's True Romance, a Mills and Boon ish game - aimed et girts

taid just a comodence that infocom's own game for girle, Ptundered Hearts (see Prignm this month) is coming all right now? And does at this tempine activity mean that women are becoming more involved in the playing and the production of computer games?

Certainly there's a lot of temale participation in the adventure game world Magnetic Scrolls, with The Pawn. Gold of Theres and now Anxier, have shot to prominence m the peet couple of years, and the brains behind Scrolls is 25-year-old Anda Sinclair She reckore that women compose about 25% of the Magnetic Scrolle audience, and further suggests that women make better adventurers than men As tor herself, she edmits to having written a couple at arcade games, but will not reveal their names.

Does she led that her sex has hampered her cereor in the games biz? Not a jot - in fact. Yve had more doors opened for me because fm a woman", she save. Ante has a pretty low opinion of Plusdered Hearts, calling it form of the worst games ever written', lergely

Manual Commerce of Clade's . Borooks a netherwaymen srcade games programmer 10 Advanced Computer Entertainment

because she sees if as a a cyrical and palronsino marketing device to exploit women consumers. Not that Ms Sincian says berself as a famil nist, "t cannol stand or tolerate femi nism of any form", she says

Anta Stratag doesn't have much time for arcade games, ner thei does ACE adventure columnst. Pat Winstanley She thinks women prefer advertures because they 'demand (hought' and they're something you can stop and start with

One of the few women making a trying from developing ercade cames is Hanan Samara who rure development house Dalah (responsible for such recent games as Mean Streak and Yogr Best') Even she though, doesn't really gop on tor playing arcade games 'I prefer the design more than artything else \ Allhaugh thera are plenty of women programmers around most at them tend to work in the field of bueness software

For the lime being, all least, the boys are running the game

Games for girls

Telecomsoft comp - the winners

That massive software prize every Telecoment release for your machine for a year - tee at lest been won. We recken that earlies ran to wall over

Grimsby 64 owner PAUL GREAVES of



'Orrible murders

RL have cooked themselves up a nice little publicity-spinning controversy with their Jack the Rippur game (wedlen by those accentric tadies of \$1 Bride's: The recipe's pretty simple. get yourself it gory game, go along to the Sntish Board at Frim Certifical tion and ask them to certify it, than make a lot of noise because they say it should be for the over 18s

CRL are no strangar to this tactic. they took previous releases Dracula and Frankenstein along to the him censors as well, and duly not their certificates (and publicity). Their new game breaks new ground - or plumbs new deaths, depending

rce depiction of scenes of revolting violence. The screenshot theil came through with their press release showed a disemboweled naked women, with mutilated breasts, splitting blood all over the place

to have quite the opposite effect.

And producing It on the CS4 and

Spectrum means that there are an

Thera's no doubt, at course, that the game choulds? heen seen by under 18s But placing a sticker on the package

saying as much is more then likely

awtul loi pi unber tās around who could play # - # they wanted to, but, of course once they see the certificale nobody under 18 is going to Iry to buy the game are they? And, of course, no shopkeeper is doing to sell it to anyone under 18

The euthors of the program those ladies of St. Rode's ... risdam all responsibility for the graphics,

their input. They say, was confined to the text. Not The St. Bade a Prisolia Langador is taking accusations of bad laste lying down, she defends the game as being en attempt to 'recreate the atmosphere of the times and as portraying the 'strugg's between good and evil" - as opposed to the 'moral anarchy' of the ercade gemes. The St. Bride's sient on the well-worn tale comes courtely of its clainvoyant found" the theory runs that the murders were the work of a diabolicat sect engaged in ritual sacrifice

At ACE we heven't yet been able to pass beforeve judgement on the game - neither copy we hild received at the time of writing warded to load - but The Prigrim will apeak in our next issue



FASTEN YOUR SEAT BELT...



(61) Are those things varieties rate? Give em a kick, just in case.

Vampire's Empire

In that of so servi Acioloscii inheir oppus, when Marke in Germany piatiteme epus for CSA Spectrum, Amstrad, ST and Amaga, Il the gloomy otmosphease of hise gloomy otmosphease of hise growns are emything to go by , the grames graphice should match to Decularisms themse very noely. Yampeinis Brignes a due out in Joniusmy, so fract sharpening your stakes sight now! ...and prepare for take-off! These little babies are queuing up on the runway right now, and should be reaching for the skies from a shop near you in the next couple of months. Check out next month's ACE for the definitive reviews...



(ST) Big trauble in Pitle Transylvania: 1 wish I'd brought that garlic navel



(ST) The computer leaves a summons. I think it means you

Poronoio Magabytes

Yet more from those prolific Germans, courtesy of the equally prolific Analosoff. This time the setting's an oppressive future world from which you must secretly plan your escape.

Deciving the state's a risky proposition, so mind the central computer doesn't out by you at it. The game's due out for all major micros some time in January.



(ST) The 64 000 volt question: get the snewer wrong and you really world the the consoletion price.

Out Run

This tracedially long-awaited only a prevention has the streets on CAB Spectrum. Ametrical and ST very soon and its still not clear how the horner much versions will introduce up to the originals very high standards. The reserres thing welve seen to a final-lest product so far as a CAB version with a very rune seel for speed and very rune seel for speed and very rune seel for speed and very rune seel for speed and

gradient diong with some impressive brackation features point trees spectation and the like. Dut \$50 to gameplity. The production versantil have a tope of the original accorde mass, so Passing Brewer lims won't lose out even on the Spectrum But will insechanical violence form be subsided by the high-speed creables? Well and see



(CSI) Oversking a Seeda (or is 4 a Fat?) on the rack-base highway of Stage Three

Grand Prix 500cc

Yet more roung action on the way, this time from across the channel. Tea round the world's Grand Prox circuits on your half-like bake striving to outdo computer opponents or a fellow human being.



on your ST or PC (ST) Burning reader at Severation

Apollo 18 -Mission to the Moon Electronic Arts

US computer game patrotism may lead to some patify gardesque re-enactmenta-bombing Librya queta for every out soud - but this Accollade talle proves that it can also produce some commendable ones too. The NASA Applic programme might have ended back in the early serventies but that final meson could be filling off on your C64 real soon now. From countidown to spirabdown, the monoshoth in your backs.



specialists Dinamic him this: Game Over al course but there are certainly signs of the scarne crombac flow here (t) guys than baskets which out for Dinameds Navy Moves niso due out train Ocean early in the New Year)

Masters of the Universe Greenlin

Royed on the torthooming Dolph. landgren film, this new tie-in follows actions character and sometime plastic toy He-Man as he and his companion Teela battle the forces of the arch nasty Skeletor in (of all places) modern day California II you've not a Spectrum. C64 or Amstrad you can defend the universe from evil later this month.

(CS4) He-Man bettles it out with the locars of end. ins dark alley ?

that

Test Drive Flectronic Arts

Driving games are all the rage right now but Accolate have come up with a new angle on the genze with this one. Due out from EA this month on C64 PC and Amiga, Test Dave lets you try out some of the world's Sashest high-performance cars - Ferraris, Lamborghins and Poraches all make appearances - over timed road courses. The tible calms to gave you the feel of the different cors' handling characteristic but don't spend too long assessing high speed performance or the Highway Patrol will collar your



The Hunt for Red October Argus Press

The game of forn Clancy's book - a kind of underwater Firefox - this one sets you the tosk of staering the Soviet. submotine Red October to US waters so that its officers can. defect. The subs secret lownoise engines would make this a piece of cake but the Soviet first have already been tipped off so time is short. Due out this month the game'll be available for Amiga, ST and



PC (6T) The Albertic Doesn on the main screen, with opner options on the right.

▲ (ST) Seed looking screen, even if the hell is a title difficult to one against that background

Tonic Tile The Edge

Just com't get enough of those Brazikout clones? Played Arizonaid and Impact to death and still want more? Then take a look at this French bathroad effort due out on this ST cmy day now There'll be a full review in next month's issue but this screenshot should give you the measure of the game grophically specking



LOOTING, GAMBLING AND SMUGGLING



REPORTS filtering through from Hong Kong suggest that the might of TAI-PAN is hreatened as a pretender to his little is now becoming stronger a very day after a speight of pirate attacks on innocent merchant ships and an uncanny run of good fortune in the gambling dens. Although runours now suggest that his own empire may wall be in jeapardy as mutins strikes throughout his fleet.

COLOUR VANISHES



THE evil Zark strikes again to leave our world void of all its glorious colour.

Our only hope now is for the magical powers of Wiz and his fantastic feline friend, Catelite to perform their wonderous deeds – indeed, Zzap has alres dy been quoted ss stating 'the finest release this year".

I USED TO BE A FLY IN THE OINTMENT



TRUE story by intelligent man.

A new experience, just relessed by Denton Designs, takes 'growing-up' to further dimensions. Have you ever wondered how you got here, which

going? Well Eco is the game for you. The graphics and animation are a sensation and the game-play is just out of this world - a game for life! CHRISTMAS SPECIAL

4 NEW

RELEASES NOW FOR THE

ATARI



MAVERICK SKIES

TOP Gun has gone through the roof! "Flying has never been so easy - the hard part is winning!" says Tup Gun. On his latest assignment he just couldn't be stopped - flying supersonic and producing aeris! manoeuvres that would fool a turbo-charged horse fly he later quipped "Fl's simple, just enter the dancer zone!" You're cool, the engine's hot, the girls gorgeous, a tank full of gas and an open road... the rest is up to you...! Speed Police





194-W49-111H-49M14-81418M2/24



ナビナダナビナ

SYSTEMS INC.

THE START OF SOMETHING NEW

DEBMA I: CIMAGATZIE ETITISE BIM, APPLE EL 95. DITBMA THE CHIMGATZIO, ADDITI EL AL REPORTI SHANANE.

APPLE, ATABI ST, AMICA EL 4,95. DITBMA TV: CIM GATZIE, ATABI ST, EL 18-19-59; BIM, APPLE, ATABI ST, AMICA EL 495. DITBMA V. CIM GATZE ETITISE; APPLE EZ 4-195.















AUTODUEL IS AVAILABLE FOR COMMODORE SUITZE ALARI XEXIL DISK £19.95. APPLE, ATARI ST DISK £24.
MicroPress Ltd. 2 Market Place. Tetbury Gloscostaratics GLB EDA, UK Tel. (0666) 54326. Tiz: 43422 MPS/UKG.







F Pin up

I am a loyal reeder of your sister magazine Amstrad Action, and on a recent top to the local newsagent I spotted a glossy new mag called ACE with a special on solid 3 D games (my lavounte)

Fictiong through the latters sec bon I mad the first letter, and thought Ah so that's where Connor sneaked off to, nothing to do with the Foreign Legion after all I have a suggestion my bed-

room wall is plastered with artwork and posters from various computer magazines (not that I read them) and I know that a kit of my Inends walls are too Why don't you publish e

photo/poster/pin up of the ACE production team? We've never seen them, or are you too ashamed of your hand work? What does Came Anne look

Dominic Lacey Grasi Everyden

The ACE production team are a shy religing bunch. They work for the quel satisfaction of doing a good job rather than lame and publicity. As for Carno Anne (our subscriptions supremo) she's a creature of rare beauty. Unfortunately, she too is a limit type and does not wish her photo to be part!

■ Commodore 128 Since you wure unable to help R

Johal in his search for software for he new Commodore 128 and 1571 disk drive (November Leiters), as one of the first C128D (the all-in one version) owners and an ICPUG member I thought I might enlighten

Garreswise there is very little specifically for the C128 I lungw of enhanced versions of The Last V8 (Mastertronic) - disk only at £4.99 and Rocky Horror Show (CRL) cassette al £9.99 (maybe disk as well) and it is of course. The only 8 b) machine running the full range of Infocom interactive Fiction - mostly in C64-Mode but the plus' titles (Mind Forever Voyaging Trinity and Bussingeracy) can priy pin in 128 mode and only on 80-column mon-

There is a far larger selection of more senous software (word prooresors, detabases, compilers programming languages, etc.) available in 128 model yersions, such as Superscript and Superbase twinch can load logelher on a (28). Vipawnitw Peispeed and Oxford Pascal all of which can regularly be found advertised by both publishers and Commodore specialist retailers In addition any CPM+ softwarewhose publisher can be persuaded to supply if on 51/4" disk in Com-

modern GCR or IRM Kayern Osborne or Epson MFM formats can be read by the 1571 and run on the C128 - I understand that at least one ICPUG member has been able to obtain Locomptive Basic as used on the Amelrads in the way for about £50 and it should be possible to obtain other programs also

If Mr Johal is musically inclined Compute's Music System for the Commodore 128/64 (Compute) Booksi, an American bookidisk package similar to Rambad's Advanced Music System with 128 and 64 versions on popular sides of the disk

Finally of the sorts the Independent Commodore Products User's Group (ICPLIG) cooperative for £10 a year (plus £1 on jorning for a share), he will have access to their free libraries of public domain soft ware for C64 , C128 and CPM+. emengst others covering both leisure and stinous programs in all 3 modes just by sending a blank disk or two plus return postoe and packring to the appropriate librarian, and will receive 6 copies a year of their excellent magazine as well. Contact the Membership Secretary, Jeck Cohon at 30, Brancaster Road Newbury Park ILFORD Essex 1G2 7EP, or nno 01-597 1229 (daye) 01 346-0050 (evertings)

Alan Wiggins Oxford

That's a whole lot of useful milar mation for C128 owners, I'm sure they'll be most oratead

In a cleft stick

I am going to get a new computer a BBC or a ST I'm thinking of getting a BBC as it's the same as the school's get and I am taking GSCE Computer Studies I like the ST as its got a huge memory and built-in drsk drive. Can you please give me some advene?

P Boum Hursiplergoint

Tooky one A BBC Master is likely to be more expensive than an ST. with a lower spec. The BBC has loads of software available, but the ST is getting more interest at the mament and is thely to get more in the luture Bul there's that GCSE to corisider. I think you need to ask yourself just how useful it would be to have the same computer at hame as at school - don't most people laking computer studies do

ACE LETTERS

Some spicy stuff in the mail-bag this month: boasting software pirates, accusations of anti-Amiga bias, accusations of anti-ST bias (can we be biased against both?), and letters from our oldest (71 years old) and youngest (5 years old) readers. Keep sending the goods to ACE LETTERS, 4 QUEEN STREET. BATH BA11EJ

guile rupely without havens a computer at home as well? Not many people buy a microwave just because they're studying cookery

Where's Ullima? Compared to the dull drivel of so

called rival magazines your mag is balkanti I am omazed of your lantastic offers for the Atan ST - say ing £12.44 for Gauntieff But, you seem to have made an error in the Atan ST versions of Arkenoid II costs £14.95 in the shops not £19.95

When I saw your COLOUR reviews and your ingenious PIC, I was simply aslounded. Your review mg team have managed to do really m depth reviews of games. I loved the huge 2 page review of Skutldre gery with a hint section! Brilliant, I mmediately went out and bought it and I fully agreed with the 919 ret-Ing you gave it.

Keep up the good work and please continue to support the ST Can you tell me when Ultima IV will be refeased for the ST I've been waiting for it for months

Grayin Lien Chielehurst

We've already seen an iBM ver sion of Ultima IV, so we reckon the ST version shouldn't be too far away real assured that we'll review if as soon as we can





Questron - is there a caralogue I can purchase reviewing Segal games?

Answer - Turn on your Segs Console without cartridge or card in the machine and hold buttons one and two and the direction controlled down. Samething will happen?

Kurt Sega really is my name!

Kurt Sequ London

With a name like that I suppose you were destroed to tall for the Sega We all wish you both the greatest happiness for the future of you write to Masterfronce they should be able to send you a call. lague of Sega probucts

XOR offer

Could you please lell ma about your special offer on XOR Does this include the "icon Designer" and "XOR Designer" which I have read about in an advert for the game if not how much would it cost to buy all the above from you? Would there be anything off the price of this "ICCN" and "XQR" designars if they are a seperate package from the actual game which is exactly the type of game I ve been looking for and your review in issue one made me decide to purchase, and your discounts happfully will persuade me to buy many games from you in the near future. If you could please answar my questions about 'XOR' etc. Then I would be most grateful

Mr D Kyle Watford

The XOR Designer is a separate product selfing at £14.95 - but on the 88C only it's not avariable through ACE



Help! I bought a Spectrum +2 about 8 months ago and ever since then Ocean, Imagine U.S. Gold games will not load except the odd one Why is this? And is there enything I can do besides buying a new combuter?

> Darren Moore Wigen

We haven't had any problems here with our +2 but we only got ours m

Never heard such

I am not sure whether there a any point in my writing this letter about an enticle written in your third edition of ACE as the article about Aminas and Alan STs, was clearly written in a very deliberals and subtle manner

My observation is that all the good points of the Amica with highlighted on the first colour pages whereas the good points of the Alari ST were left until the bot-Igns corner at the following black and white pages which is obvi ously not so likely to be read by

As for your famble explanation about the Amga's lack of software again on the first page (have never heard such rubbish m all my life. In America, the Amiga has had higher sales from the very start, mostly A1000 and A2000 models, and in that country it is recorded as a games machine The Alari ST has never held such prefentors it has been arried at the games market from the start and even new Commodore don! seem bothered I don't see why your magazme should do their job

Your companson with the C64 seith vitters exception excepted not hold water, as that comuler was a garres

machine out and out. As navia their effect on soft ware can be no more than minimal I suspect you only threw lingue two in, in an sffort to con us into believ ing that somehow this country is the god man out rather that the only country with more sonse than

As far as value for money is concerned, the Alen ST wins hands down. When you consider if costs less end disk drive. The value is simply amazing. When you ask the vital question as to

money

July There were some problems with older games due to the slight differences between the old 48K Basic and the +2's Basic We sug gest you by all the normal adjust ments such as checking the azmuth settings, and also - II you can - by out the games on another +2 if there seems to be something wrong with the software rather than your computer than get in touch with the supplier of the game end see it they can help or if they will

exchange the games. how much estra one should pay the Artiga, I would suggest the answer is not £200, as all present A lumber £50 or liven £100 might be acceptable, but egain, when you consider the senous lack of software what's the point of the argument at all

I have anjoyed the first two editors of your magazine, but not so much the third. Alan deserve success with the ST machine and if you continue to run if down. I and I suspect many others will not buy any future issues. Be warned?

R J Lattimore Heyanl

Of course the article was writer and deliberate and sublin manner we wouldn't want to have writen something theil was slapdash and morenic, would we? As for accusations that we're anti-ST, I think you're wride at the mark both Amiga and ST were leasured on the colour pages opening our Investigation we didn't make any attempt lodsguise the price differ ance between the machines, we stated clearly but without any Swoontram that the Artiga has a supmor lephanoil spec, we menthe readers to make their minds

■ ST bias? I littek that your mag is great, but-

and a big but it is too - why ais you doing most at the 16-bit work on the ATABI ST? I know it is a orest machine, but come on it's not the only one on the market? I pen an AMIGA 500, and a mean machine if is too. I think that it was well worth the extra cash and that Il deserves more credit than it. gets what with its 4096 colours duce I can guarantee the quality of the games if has to offer The pince for the ST is very good indeed and is well worth the money But if you want to get Who does he think he is?

I have several points to make so I

1) Who does R R Moranzani think he is? I refer to his letter in issue 2 the cover and it is much easer to ses what great articles are inside than e piece of priwork for one carre. Wr Morenzana also says that you need more colour inside ACE 2) ACE has more colour reviews screen shots and articles than most

something really special get an AMIGA I can lell you it is well worth the money! Not trying to slag off any computers, but I think the AMIGA just has the edge on the

Steven Wright Bracklay

We review as much Arriga garnes software as we can get our hands on, and the Amige leatures nearly givery month in the Graphics secbon it doesn't feature so much in Music, birgely because there's very little around in comparison to

B Anti-Amiga mag?

In your first issue you supply a free cassette for Spectrum and C84 pieners, bul il you own an Amiga you get a policy title £8 off some old games not even worth your discount prices II Specty and CBM owners think the tree game is rubbish they can still use the tape as a blank Ma I have to fork oul E1700 for a rubbish game/blank disk

Also Amiga reviews are thin on the ground Your graphics regine said that the HAM made of the Amiga & Yather imprecheal! with 'very nasty restrictions' I aug past your reviewer has a look at DunPant

I took forward to Issue 3 with Iree software/blank dak for the Amiga (the ST and the Amstrad are also cetting a raw death

G Pricy Attimborough, Norfolk We are not fanil' any computers if

racken the offers to Amiga own ers (and others) were pretty aftra tive. We review as much new Amiga software as we can get our hands on. We could possibly give away Amine dames on the cover - but would you be happy paying £4.00 for the measure? I lost you find the grit on this Christmas result compatible with your ritach(re

other computer magazines avail able Also comments like What wuz dall ed?" are not in the least bet funny and only make the magazine look immature and slupid. Plus the fed that ACE will not get extra read ers by pinching ideas from other magazones

The only throat our same with R R Moranzani over is the rating system which is a very interesting idea aspecially PIC 3) Do you know if there will be the Commodore Show in Manchestor

and if so when? Last year's show was a bit of a disappointment as none of the software houses sup-4) Thank to Pat lor a great G A C column Berno # Commodore

GAC owner I find it very interest 5) The competitions are great and t think that the prizes ste very good

and I hope to see more of them 6) Finally, a word about the reviews They are very informative and I eapecally like how you pullabels on the screen shots sometimes you cannot always tell the goodies from the baddies (le pul il bluntly)

Thanks for a relieshing change to the normal computer imagazines. which seem to spend most of the pages stagging each other off

Milch Pomfret Bramball

Poor old Moranzants taken e bit of a braing on these pages lately lets make this the last letter telong him to task Al them moment we don't know of any Commodore Show planned for Manchester

Happy Amstradian I am writing as a delighted Amstred

owning mader having taken full advantage of the first two issues' special offers and saving over £15 on two excellent new disk games Those savings would have been much better to me than one told) free game and a demo that would hardy last live minutes

The magazine is superb far more mature more stylish more coldurful and with batter leatures reviews and special offers than any of the rest Issue 3 being the best yet As spon as I can afford it. I will centarily subscribe end save even пате піолеу

Tim His

H's mon to me a letter from an how mervellous our special offers are - and just how manyalous the stagazine is

■ Gamesy-warnesy ples I øwn a 880 Micro B and was doing

quite wall for Software roomsdoring I own a BBC) until all of a blooming supplier all those lovely cames that had been converted from machines like the Spectrum and Commodore were just wiped off the shelves to make more room for the more popul let micros. So before I ge end spend all my hard-corned pennies on a CS4 could you tell me whether all those nice kind, considerate personages are going to make a gamesy warnesy or three for my puny Boeb

Paul McKay North Cherm

Superior and Audiogenic still seem to be committed to BBC inamesy warresys (as you revoltingly put rti. But we can't think of many other people producing the stuff

Not running the

own a Commedore 64, comolete January this year I purchased boned 64 Dunng play, the game repeatedly crashed as random goints, making if totally unplayable. I returned the disk to the shap it bought it from and was given a replacement. This replacement copy did exactly the same thmo as the first. Rather than return the game yet again. I wigte to U.S. Gold. and to this day I haven I received a

Recently a freed days me a copy of the game which worked per fectly on his machine, yell crashed just like the rest on my machine. I sunt this capy to someone else who said if worked fine let him. which leads me to the point of this

My 64 is guite old indeed it was purchased sherily alter Cemmodore kirsl released the machine and this I asuma means that there must be some difference between it and later versions which firtherto have not become apparent

All other software I have works. perfectly but I wonder if the situal tion might occur with future releas es and if there are any other ancient Commodore owners who have had any similer problems

Being a student I can ill efford to spend lots of money on software particularly if I have no idea if it's going to work on my machine something which I am now going to

I will be writing to U.S. Gold again but would ask you to grint this letter and do you think there is any chance of getting some recompense for spending nearly £15 on a game that doesn't work on my

Howard Crown

Herpenden We don't knew of any specrific hardware changes Commodore have made that would result in your disk not loading - but that an't to say that there haven't been changes. We assume that you've taken every proception you can such as unplugging all US Geld Intenseives victure of elds, no blunds some suggestions, if not explanations, and see reck en that in the last resort they eught to refund your money or offer you an s/ternalive game

I Is this a record? Bubble-Bobble demp Ison is this a record for my age? it was on a Spectrum +2

William Berford, age 5 years. Northemotoc end his mum who wrote the letter and saw the score

Yes ill probably is a necord. Any under 5s out there who'd core to challenge?

Wise guy Skulbiagery problem (page 42) there is a solution surely? You may get killed but if you get the top diemend first then dash for the boltom one I think you will get it just before you gel crushed But the problem was Just about getting the dra-

monds, washi il? Do l pel a special

anze for being clever (Skulldragery

for my STP1 No. I didn't think so. **Bevid Hood** Gleagow

Any more letters like this oburniny and you'll be in real trouble. We up got wour address en file

magazine. But there is one question I want to esk you. In Issue 2 -Tricks in Tactics section (typed in the Paperboy program I then checked it and then saved it. I then ran it as you said and leaded the game. Paperboy but it did not give me unlimited lives. I checked and checked it but it still did not work could you tell me why? Oh and by the way Tye got a Commodore 64

Lee Howard Wheathempslead

The pake worked OK on our 64 in the office, we can enfy imagine that either there's something wrong with your machine or that there's something different about your copy of the program that means the pake doesn't work

Mail order misery I was wondering if you could give me some ledvice on my rights as a

issue I applied to a software house for some goods. Since then I have written to them four times and only received two out of four of the riems which I applied for

Both of the other two stems have been readily available since I applied, and the software house have not written back

Stephen Strein Shrivenham, Swindon

First of all write to the company concerned and led them you ere going to take the meller further If you strif do not receive setisfaction get up touch with your local author ty's Trading Standards Ollicer or

Cad of the month



I don't believe the price of ST salt. ware - £25 a procel That's four for £1001 And I bought my car for that pince PLUS figel a foll more mieage cut of my trusty Trumph than Stargadar, Goldrunner or even Supercycle

Luckely I found a person who cases me a coop of any ST Mio for

Thank God for software pas-

A, 'Doley' West Midlands

You seem rather proud of your protecti exploits, but have you stopped to consider that the more people who behave as you do the longer ST soltware prices will remain as high as they are and the longer software houses will have an argument for keep red them high? Piracy on this scale is tentamount to steaking not assi from the company but from other honest consumars You should be a shaded of your-

Commercial piracy? I wish to telf a tale of naughty

deed that f happened to winess only two days ago

f work in "" city pentre and duning my funch breaks and I like to go out and look around the shaps On this day in question I decided to go into **** to see what demos they were running on their A500s and A2000s and on Ihair Archimedes On the Archimedes a demo was running showing its version of the Amiga's Hold and Modily The Amiga 2000 was running a shot damo for theke businessmen explaining the advantages of multi-tasking The Arriga 500 on the other

hand was being used by a member of staff for rather parsonal purposes. He was using an item of software called Mauauder to apparently -- copy a disk I have no idea which item of software he was copying, and I have no idea of whether it was for his personal use or for use in the shop, but it

smarks of pure hypocray when the software industry and the computer made zines attack home and business

users on the matter of prizcy, while people in a position of Irust and responsibility Ireal the prodnets that they sail as theirs for the I am not more/man on

wholher or not prany is acceptable as filters for games from tape to disk on my C64 and I also receive copies from Inends, but f would like to draw attention to an area which is avoided as mouth as possible by many magazines. So often home users have bean attacked by the editorial slaft of coham magazmes that one nan get the impression that the sun must share through their anal onfices I would just love to see some of them in the sort of pickle that some of the American TV evengetists ere finding them selves m i hope you don't take the editional standpoint of being marally superior as it would run it lot of good debates in your letters

paged To round all I would like you to answer truthfully the following

1. Have you ever copied an item of software for any reason? 2 Do you know anyona who has copied software for any reason? 3 If you are impressed by an item al software you receive for review and at the end of the day two members of scaff desire to lake it hama to play do you napy a lar 4 What do you below is responsible for software piracy? 5. Do you believe there is a rema

dy to reduce or stop paracy? I hope you answer this letter m a fairly sensible manner. Please don! write half a page of bull slagging me off

Stephen Sheridan Kings Norton

Answers 1 Yas

4 A combination of poverty high onces and dishonestly 5 More manay for everyone, lower prices more honesty

ask the local Otizens Advine Bureau to help

in the last resort of course you may have to go to the poice but usually these things are settled

helps that slags

Adults only?

The enclosed an Amiga disk of some of unusual diglised material gul that is your magazine if you dare or are you just arming at

luds? I have plenty more material a good understanding of the ah side of the Amega and all the ah pank ages available if you need review-

Mark Hodsman Gelnsborough

No we're not used arriving at kirds that's why wave not printing your abolos

Controversy of last

Sarry about my letter you printed! It was a little unclear if believe strong ly against the abuse of woman' But enough of that! I thought I might take up your points of excessive violenne in the computer gaining world

Ocean, U.S. Gold atc have simply found the soft spot in a geman's heah However, many of us claim that we ere panifeld. The fact is we all like nothing better than a good spaced of the A Team or a really

gory Stephen King masterpiece As for nomputer games. Bygan is a fine example of a promotion ed for a came in the arcade I bet you don't flank of it as carving a wedge in some poor soul's chest. No' it is morely a basteno of meaning to gain points Similarly, I don't think that violence is sight taken that seriously in computer enlertainment. Take Commando Green Borel Who Dared Wins and the huge amount of nignes all based around the unnerly ing butchery of a Vietnam army nobody cares as long as the game plays well. There is a little devilish part of us that gets released whits playing though I can remember me ermising with giee when I punched e club wielder m. Renagade off the end of the subway! Ha!

Demoiri Panavi

Failed expectations f was delighted when your maga zing appeared on the news stands but atts, I have again been taled in to subscribing to something which

does not nome up to my expecta.

Believing that with the staff who produced Personal Computer Games this was a rebirth to cover the disappearance of Computer Gamer which was my favourite

mag, freedly sent off my sub. As a pensionar of 71 years I used to enjoy typing the listings in the now defunct publications. Not all of us are computer boffins and there was always a lot of pleasure in getand the listings correctly on to tape and walning the results even Though I admit that these were not up to the standards of commercially produced games

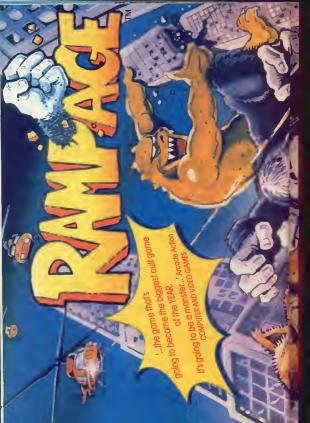
Untohunately I see from your reply to John Hammond (Issue 2) and Don Griffin (Issue 3) that you hold the superplicus view of the expert that the interests of the novice are not withh celering for Evon an occasional listing would be welcome but if this is not forthcoming I shall be glad when my sub expires and I shall no longer have to bother trying to find some thing in your may which is of real mayor lo mo

I'm sorry that you don't like the

C.Gapran Redcar

magazine, but i'm unrepentant about our decision not to run isst roos in this age of ever more sophisticated software it seems to use that there is just no point at all in spending hours typing in a Basic program - and even less point in devoting valuable space to them m the magazine A's not as if we promised to print listings and their changed our minds, we said from the very beginning that we wouldn't have them, and that desision is not going to change As for 'the super clicus view of the expert etc., I think you re bariting up the wrong tree afthough some of the erboles m ACE are written by boffmish peopie we atways bear in mind that our readers are a mixed bunch spanning a wide range of experi ence and knowledge

You have found treasure beyond your wildest dreams blend of flight SOFTWARE'S GREATES' TER GAMES ... anding location for a GAUNTLET abination of testing events, annualed classic No.1. INFILTRATOR ... action strately and simulation NCE OF ACES one spy action thriller. Like being in an action LEADERBOARD WINTERGAMES INFILTRATOR U.S. Gold Ltd. Units 2/3 Holford Way Birmingham B6 7AN Tel: 021 386 3388 CBM 64/128 SPECTRUM SPECTRUM +3 **AMSTRAD** £9.99 TAPE £9.99 TAPE £14.99 DISK £9.99 TAPE £14.99 DISK £19.99 DISK





GAME OF THE FUTURE

Vision of the future

Check set the sturning graphics on this Transpaller ray-hasting earns. Bit yearling's need in thousands of experts calculations exist the thirds-end-conquer approach at historia parallel processing chip. Have long before we see this fact of chings in all joint? Deads The EAN, the chip that realize it all persible sets a count on in the rack. It's Xmas 1992, and you're loading up the brand new game some kind soul's just given you. But what kind of game will it be? What sort of machine will you be loading it on? Andy Wilton investigates.

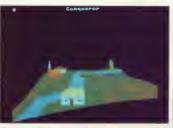


w generation of mucros is already on the housen power micros fast enough to run whole new types of game Micros using the technology on these pages are still a long way away from the high street shops but in five years time you could be playing games on them They'll be able to spread the work of running a game between many separate processors, they'll be able to display half a million of colours on screen of once they'll be able to read vost games from compact discs. But will programmers be making use of all that power? Will noisy phone lines thwort dial-instroade games? And could this mean the and of sontes as we know them?

Anything could happen...

in the next five years. Five years ago the Spectrum was brand new, and showed every son of wiping out the vegr-old Commodore VIC 20 - a rather lightweight precursor of the C64 with only 3K of memory as standard At \$125 for the 16K model and only \$175 for one with a massive 48K the Spectrum was the ST of its one it delivered. more bongs per buck and guite a lot more

On the horson at the time was the Again. Electron a cut-down BBC micro that promised to be graphically superior to the



Spectrum II was, as It turned out but its high price low power and late arrival were to prove its undoing

The ballooning of memory sizes and the collapse in micro pricing broke games out of their coin-op cloned stagnation, making whole new game types possible. Software

8-bit machines need not apply Jenethan Griffett's innervisite lask workers game used the justiciscols

tensiscene ractions of Zerch to bring you bildking on the Archmedes The power required to handle the display in this case may even be beyond the casecty of the ST A good exemple of how increased machine power can make new game-styles possible

houses mushroomed, and the games scene we know today started to take shape

The use and abuse of power

If the power of the ST's 68000 or the Amiga's bilter are revolutionaing games this Xmas, we can spect even better things of home micros around (say) Ximas 1990. Alleady with games like 3D Gelex and Carrier Command the 68000 is producing unbelievable rolld 3D graphics at high speed, and it's still early days yet. With the far greater power around the corner, what other game techniques might

Ray Tracina

At present contined to still pictures and effort entmated sequences on the ST and Arriga, this slow partitizing process involves following rays of light back from the objects in a scene to the imaginary source of light Numinating them. Rey-tracing a scene involves an encumous empurit of work, and existing ray traced aremations are no more than 'sitdle shows' displaying previously calculated frames. The dasse Amga Jugaler damo took over an hous per hame in calculation time, and even Tim Moore's high speed ST ray tracing system look 12 minutes to produce the frame shown here

Ray tracing can produce frames of immense complexity and realism, depicting shadows, mirrored long time before a home micro can use it at anything like arcade game speed, but compromise methods should be able to offer many of ray tracing's advantages in the forseeable future. As Petu Co. proved with his emash hit game. Tau Catr claver lighting lechniques. can add a great deal to game realism writigual slowing things down too

Otherwise, the real thing could at ill prove precipcable and spaceswing for graphic adventures, as well as static-ish cames in like Sanane/ or Drater mould

Fractals

They may seem like yesterday's hot piece of games technology, but with more powerful home micros on the way fractals could go far The power of these exotic mathematical addition to give surfaces enatural, realistic texture has long attracted programmers to them but there's an enormous burden of number-crunching lavelived. As a result thosi existing name micros lack the power to handle fractale effectively all arcade speed, and since the Lucastim efforts there's been a consprayous lack of interest in them for games purposes

Fractals deserve a good deal more eltention than this, now that high-sower micros are on the way in They can texture anything from C 12CS

Parallel processing

Micro power is about processor speed and memory speed. There's a limit to the rate you can get a conventional one-processor micro to run of Technical advances may have brought us newer faster processors and memory chips but the bottins can't keep this up indefinitely. Beyond a pertain point the only way to get a computing job done faster - whether it's moving a sonte filling a shape or creating a sound waveform - is to spread the effort between two or more processors

This sharing of the workload is technically known as parallel processing and it's already a well-established principle in the lofty realms of supercomputing. The multi-lon monsters of the world's research establish. ments can tackle vast number-crunching



ST ray-tracing done by Tim Moore

problems by putting thousands of processors to work on them simultaneously

Print If you deart have \$10 million for net of Sympton Cray's time bounties you can still get on the bondwagout For states, the compositively) humble Amplo has a limited possible processing capitality with 1 magazityle or mese or mineracy. You can get so o4000 control processor description prowints as batter, effectively or guideling provision in batter, effectively or guideling proyet that the provision of the proting of the propage of the protine pro-

ABAQ

Due for laumch in the last half of 1988 the forthcoming Atac/Periblon AEAG weichts tam will offer mance lengthe parallel processing power that plugs straight in the boat of your ST the projects based around the 7800 Transpater or chip that has follow; with its 18-th batcher the 7414 been quickly taking the computer world by storm over the last two words of 500.

Life Accents ABM – the powerbrose of their Archimedes micro — the 1900 or a firstdesign hostling from West country chip magnotes larmer. Also like the ABM. As a 32-bit chip linked you could be longwest low thinking that the selent of plugging or 1800 into cm 31 a very like Accent pluggin some company of the selent plugging or 1800 the cm of the 1900 of the 1900 of the 1900 or home micro but there are some lag differences.

For a start the 1900 axid-on won't just get

Speed vs. screen size

Machine power is on the increase the whole time, but so is screen size. Size here means the amount of room the screen takes up in memory, and that's a very important factor in gernes performance.

Computer at packages and machine sales brochures describe the screen in terms of the resolution (300:000 or whatever) and the number of outputs withinks similarismostly. Both of have here been reany controllady bent the late the years, and the rate have publish up the similarismost of screen reasonsy required. For example, the Amstad CPC seeds 16K for a some of 160 doors, 200 lines in 16 colours, while 32 colours (200;004 Amps actives towary per herly 46K of DAM.

In broad terms the moret memory is screen falses up, the more power you need to run the some game on it. Their levely furthand games typically an slower than their Spectrum convergence, and machines are just about equal or power, but the Amstracts owner is at least those ability William Services and their screen ability William screen. The 256-coloux 3050/256 Antomenics effort used on Zarch taxes up 80K, procebly the hopgory 1—more power has the courty on

rising just to keep games running at current speeds?

This vicious circle lent nearly as bad as it sources. Micro power is roung a good deal baster live sources ear the moment, with the Ampa and the Archie both capable of handing polivare spries the size of the entre screen in typical games display modes. Quick game of Space Herrer, exp. enyone?

your ST thinking finite if III give you vonity better grophics from its own emboard video chips and manipulate these of thoredible speeds in truth if and really an add-on for the ST oil, but a high preferements computer that releas on the ST only for keyboard input and dark stronge. The second big difference is down to fine.

1800 fiself. From the outset the Tronsputer family were designed as parallel processing chips, making them quite unlike anything.



Like the Transporter, Assert's APIN chip is Fyling the flag for British there in 256 solvers.

else around Each one of them is almost an entire conjuste in one chip complete with EX or 4K of RPAM checkly built in Linking them together is childsplay limms have built a multi-player combat helsoptir simulation that less four or more armschaft plates for

Dynamic Universes

See how software for the machine of the moment five years ago (the Sincial Spectrum) has metured in the quest for the dynamic unrester a real world encapsulated in your micro. And if this is what we can get out of an eight-bit machine, what will the next live years aqueste out of STs and Antigas?



 What you see is...
 what you get in Neuclaid Hedger The closest this early Specyour gener gets to need on it glast XD affect on the wells. Tour foremic shrintner is a print a single acrossful.



A Isometric exercises
Suerva a Marin Gargayla oriange on the 30 cours-by-noon style
of Alic Alac a aucossocy, Kulght Law The same bits-and-places
seasonable as follows but Alic before such that letter stuck has been aliced as the seasonable as the bits or such that it is a final before that Aliced the state of the seasonable as the seasonable as the bits or such that it is such that it is a final before that the seasonable as the seasonable as the bits or such that it is not a final seasonable as the seasonable



2 Going places...

Enthrie Ten. Cook Paragi of Varies use shoot of his time with
this not 30 inclinaciping has improved and now you can some in
all directions to capiers the para world further



5 New perspective Destroits: Arabiset ps for the 30 perspectes hard with shake appealing larger as they get more the canera. It's still read-by-court, lacker to breat thest...



3 The Jig-saw approach

Air Alar Utimale late the opposite approach - there's no
scripting them, but they're packed a whole proposite promoter
into some maken.



6 A world is born

Skiller The Freezage system trans incomfee brings a plant to
the Whether they can especies shy more blead act of the Spectrum space is anybody's group.



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around the same solid 3D landscape fining of each other if they wish, and uses 11 Trans puters per player it only look two manthere was no need to get dever with that

The biggest drawback of Transpulei Where Acom's add-one have mostly been within reach of the home enthusiast the Atom/Penhelton box plus softwore will peobabty be around the £3000 mark Put that together with the price of an ST (and it may have to be a pricey Mega ST at that) and you've got a bill that makes the Archimedes look very cheap

T800 of 20MHz 32 bit Blittet for graphics operations (should be around ten times the speed - its own picture output Throw your old colours or a 512x480 one in around half a

that kind of anaphic output sn't actually way over the top. Whether a future T800 between them the T800 and the Bitter aan handle a screen that size With 'titchy screens like the ones on Amag or Archie uses the dynamic duo could surely perform

staggering teats The question is are Atom planning a cirlo firturo? Oronions differ many see ABAQ. vegus time. Sceptics like Storgitcler duthor Jet. Son point to the high price of the Transputers themselves even after a recent price out T414s still cost \$180 each - and the last discouraged Transputer prices would turnble with the mass production on Alari machine would need they argue, and chip prices generally are talking all the time

In practice

games programmers aren't using it of pushing they machines at all with many games still parbally written in high level languages such as C. This makes them considerably slower than they need to be - the games is often attributed inglitty or wrongty

For programmers languages like C can make tile a good deal easier and cut down writing time for softwore houses it makes the time needed to convert from one

To on extent this is just a phase the 16-bit market's going through Early Spectrum in adverts at the time where nowadays it's 16-bit C monsters con't match the speed of the machine ands apposition so they're starting to die out but such games may well find a safer niche on high-power mucros

mous increase in speed they offer power micros will let a programmer get away with using C. As Zarch author David Braben pointed out 'On the Archamedes you could even write a marketable game in Basic It's going to take a lot longer before high level languages are drapped on ARM or Transpuler

Transputers tresent mochane code pronetworks of Transputers can be very tough going indeed at such a low level Inmos themselves strongly recommend the use of the paratiel processing language Occurs instead and the signs are that most programmers will toe the line on that one. The chips designed to be programmed in Occam Arcadia programmer Andy Walker and 17d be worth the shaht loss of speed to cet proper parallel processing

Sprite send-off?

Not only will programming techniques have sentation of the games you play With machine power and screen size on the way up conventional bit dump (that is spritebased) games start to look less attractive a scale larger than the entire screen (see Power and Screen Size) a game's going to have to do just that to actually impress any one The bri-dump games of today just won't thermore if you're writing a game for a micro with a 1Meg screen you'll have a lough time ennyentennal disk: (A CD could manage if

(hough - see separate box) On the other hand, the new chips will be able to handle the calculations and creatill ing of realistic 3D games for better than ourrent machines can Higher resolution displays will also suit 3D games very nicely with tower ragged eges and better definition on small objects. Given the prestige attaching to realistic 3D - no vectors title has ever been launched as a budget game for exorn ple - such techniques should also fetch

CD capers

Two or three years ago, the future looked CD shaped Laserdisc coin-ops like Mach III and Dragon's Lav heralded a new era of TV-qualty graphics you could interact with Well, that's

the way it looked, anyhow

Compact discs are undoubtedly wonderful things and could have a lot to offer the gamesplayer of the future. Their enormous capacity tor data - over 500Meg (that's 500 800K) on one disc - makes them naturals for frome computer use CDs would be great for distribuson of bulky games be they graphic adventures big-sprite classics or whatever

As for Dragon's Law -style Interactive video, it's hard to see how this can ever match the level of player involvement most games players have come to expect Several soft ware houses have interactive video projects under development but the gameplay problem rsn t going away interactive video games like Bragon's Lav are something of a dead end - a cop-out," opined David Braben (he of Elde and Zarch tame). They only have a simple tree structure which gives the player very title to do. The way to get TV quality graphics and gamipley together is by sheel processing power - but that's looking in the very long ple choice adventures in ACE 3)

games a better pince. Will sprites rise to the challenge, or just tall by the wayside? I don't Bunk some games will ever die out, said ST programmer Tim Moore "but they'll certainly wase though - there's a lot more to go

The added power at 16-bit technology munch it will also change the nature of the names themselves. Certain types of game (strategy and war-gaming for example) have never really caught on with the masshave the power to do justice to the computer gones of game are getting ready to come out of the closet - take a look at Rainbird's Uni ssue - games that really do bring us one stop closer to building a complete game-uni verse inside a computer Pasten your seat helt and prepare for take-att

On-line low-down

Adventures down the phone tine are nothing new, but how about online arcade games? You can already play things tike Flight Simulator #or Doctor Soft's Double Phantom with a brend, your plane being visible on his micro and his on yours. If he's eiting mithe same room as you n'if just take a connecting cable, but if he s on the other side of lown (or the world!) then a modern each will have the two all you hooked up courtesy of the phone company. That's still some way short of the interaction you get m a decent multi user (adventure) game, but there's no real reason for this gap. A system where hait a dozen players from across the country could join mione game of an Eide- or Gauntist-style. game should be possible - provided, that is there was enough money to make it worth life programmens' while - but there would be problems

The bottleneck is the actual phone connection with the poor quality of existing BY lines, it's a bugh task cramming the information into them fast enough. To get a smooth game your more has to tell the central system what you're doing, and find out what everyone else is up to, 25 or even 50 times. a second. That's a tall order on loday's phone network, though there's some promise that BT's new System X will make higher data speeds a sight more reliable

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The DG20 was reviewed in Issue I of ACE II features 20 preset voines that you can combine with sustain, reverb, mule and solo/chorus effects to take you straight into the charts. Sack the drummer - vou've got 12 PCM (Casio's Pulse Code Modulalion system) drum rhythms as well as four buill in drum pads to get things moving There's also an I1 slep transpose lacitly footswitch, headphones and built-in speaker. Add all that to the MIDI DUT facility and you've not a powerful mstrument for generating a whole range ol musical effects. Normally it would set you back £279 (including VAT), but we're giving you the chance to walk away with one for the price of a

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2 The MT600 features PCM rhythms. Does P.	CM stand for ¿Trok appropriate box)	maditzini	ie danon	aro was now as to pure	g you a box
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b) PERFECTLY CONTROLLABLE MIDE	п	each of the following			
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The first has been been depth or an extract on your properties for the properties for the

HIT GAMES

GAMES



DISK



izant – Inspiness prescription graphics created using Dicemed's 155, 000 Products XP graphics exclusioner

here's no doubt that good graphics sell computers, how how many Atari STs and Armiges have been sold on the strength of such lamous demos as Shiny Subbles or the Juncier?

Spinding \$50,000 on a computer for its graphics cupabilities alone is emother thing attaigeter – yet that's who the exhibitor of the October Computer Graphics \$7 Show at Landon's Wentzley Coaletence Centre were trying to convictor wistions to do

The eighth show of its tand GSST includout of introduct of computer-culturated films, or sense of very high-brow continences and displays from atmost 150 components involved in the very big hastiness of molecog computest make pictures. The treaths were much boggling, a force of images, some just should within the compositions of high-end home computers others are notificite that if was hard to believe they were rows of pixels and not the real thing.

The show covered four mean cross improgra, buttering reparlses, pure design and contraction. Innogury is the jargon for the bursles of compresse images to other formatis obviously, however striking your picture it is not obviously, however striking your picture it is not obviously, however striking your picture. In not obviously our many good attitude on a compress when the program is fractioned such consideration production. On the program is fractioned as such and depth of the program is the contraction and cover of process to make the program is the contraction of the program in the program is the program of the program in the program in the program is the program of the program in the program in the program is the program of the program in the program in the program is the program in th

Even more expensive were the graphon systems themselves. At the low end IBM FC compatible softwore systems such as those from Decemed and Gengraphic con produce a huge range of charts graphs and diagrams using a simple data entry routine. The results can be positived up with different

COMPUTER GRAPHICS 87

Next time you're trying to do some animated 3D on your ZX81, you might like to think about what you could create if you could only save enough money tor a really powerful machine - something costing a mere 20 or 30K, perhaps, Computer Graphics 87 displayed the Ferraris and the Lamborghinis of the graphics world. Chris Jenkins went along for ACE; he didn't have enough cash to buy anything. but he did bring back this report.



Animated graphics from Assess ad, by Digital Pictures

text fonts selections of colours and back around effects, to produce a slide or over head projector image which should help convince the manging director that you really do deserve that raise

Amiga Workstatians

You can also put together an impressive graphics workstation using a Commodere Amiga 2000, with an additional maths coprocessor chip, hard disk and plotting tablet The Scottish Amigor Centre showed a system working out at around \$8000 which produced some ampressive work using software packages such as Sculpt-JD and Forms to Flight Remember that in this world, £8,000 is considered a baroato-basement price

The Amiga's 40%-colour palette and 640x400 pixel resolution is certainly impressive compared to most eight-bit computers



Computer animation method with this scales in the Personaust TV

The radi heavyweights in the graphics warld though, boost palettes of over springen million colours, and resolutions up to eight thousand lines

The heavyweights...

Many of these are used for technical appliontions such as CAD (computer-orded design), or atrophical analysis of assertable. cal, meteorogical or metallurgical clota: The some systems with different software and perphetals, can also be used to produce pigtures which no point-and-paper artist could ever hope to create

Letroset's Dustrator system, for instance uses α 1024x768 pixel display and α polette of 248 colours from a choice of 16.7 million You can either create a picture from scratch, or feed in a scanned photograph, or a video impay and rewark it

Elustrator features all the controls you would expect to find on a home computer point package, polygons solids, lines brush shapes airbrushes fitps zooms, rotates and so toth. The tinished picture con be output to film, colour printers or video

Really powerful systems like the Dictioned Produces XP make Illustrator look like ZX80 This £52,000 system has 46 Mb of data storoce on hard disc and a maximum. output resolution of 8000 lines. No wonder some Dicorned images look so read that you worst to seach out and touch them.

...and super-heavyweights So for we've been talking about sytems with mere telephone-number pages. The next step up are the intercontinental telephone number machines, often over half a million pounds which produce the sort of imposes which you see every day on television.

Perhans the most impressive source of



Securities ad , by Digital Righums, thora percouler animation

Familial say that their 4322 graphics display aye

tures who are responsible for the ITN News and Opportunity Knocks trile sequences, and Smorties, Access and Yoplatt adverts - these represent the most sophisticated computer graphics commercially available

A typical Digital Pictures production begins with plans or solid models being convaried to digital form using sophisticated scringers. Some objects such as requirednous

backgrounds can also be awared "monarisrally", using techniques such as bactals The results are stored in a Data General

MV100005X maintaine, then transferred to on IRIS 2400 realtime animation safe. The animation is set up using a way frame representation of the vorious objects to be incorporated These are manusu-

lated with cursors to control the animation speed and direction. Key frames are defined, and the inbetween trames automatically depended by the computer

When the animation hos been planned the information is transferred to a "trame Store" where the details of apiour and lighting can be acided, using techniques such as the debathaliv-

named "Phong Shading" which realistically retresents smooth reflective objects. Techniques such as "teature mapping" allow video, computer or painted images to be incorporated into the animation and other properties such as subtle texturing,

transparency and translucency can be simu-The whole animation can then be downloaded into a video editing system such as

crumated computer graphics is Digital Pic- ! Quantel Painthox, or incorporated with live action, before the finished place is transferred to video or to film at 2000 line resolution.

The results are simply staggering as you con see for yourself from the graphics shown here The cost though, is equally staggering, so what own the budding computer cirtist hape to achieve with affordable equipment?

What's in it far you?

While the Aton ST and Commodore Amiga com already produce impressive results using software such as Aeas Assmalor, and hardwore video penlock systems the next wave of home computers will be even more impressive craphically.

Already, Acom's \$800 Archimedes is creciting a star with its

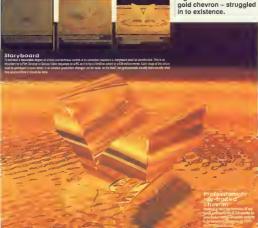
Reduced Instruction Set Computing (RISC), which enable sophisticated graphics to be onimuted better than ever before on a home computer Atori, too, is planning a transputer sytem which boosts resolutions from 1280 x 960 in four colours, to 512 x 480 with 16 million colours avail-

marke for less cost" - they mean it costs gible Again the processing speed will be such that animation and video interfacing capabilities should be Impressive

Techniques developed on the extremely expensive workstations used now will inevitably be avialable to the home user when the price of the tecnology comes down. - as it inevitably will. So next time you see a stunning computer animation on TV, reflect that this time next year you might even be able to do the same thing vourself

THE GOLD STANDARD

Some of the most advanced computer graphics you're likely to see is when you watch the old telly; adverts and, in particular, the station logos take the technology to its very limits. Brian Larkman brings you the story of how one such logo – the Yorkshire TV gold chevron – struggled in to existence.



where worth Thomas PY - and ADE provides are to only not received the provides are more adventurous than that carent they? - you must have noticed a fluge timescen in the quality of TY strain's ideals to (look, an improvement that is longisty due to the governing importance or computers and design stock The fluorisms 4 intend that of the provides are the provides and the provides are the provid

Another landmark in this process was reached in February of this year when Yosk-

stine TV unveiled their own new Ident, a gold chevion Y rotating above a sec of liquid gold – so facing Thames to postpone their own liquid logo?

It's a simple enough image you might think but a second look would reveal that the liquid from which that type cherron emerges is licerability realistic Anyone who has ever their do chare when a state image of a liquid sudace will realise how complot it can be especially when more than one

source of waves is involved.

The story of how this degree of realism

was achieved Bustaries periodity the complentities of producing broadcast quality computer graphics. It also shows how quickly the techniques of the graphics Industry are becoming available on alterdable hims

The cutting edge

As with almost every technological endeavcur the most original computer graphics are developed from ideas formationed by sofware engineers working at the cutting edge of insecurin. One thrust of this edge has been



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Charged with the responsibility of devising a new ident for YTV. Jeft Pair - head of promotional graphics for the company - was sible he says and McEwan seemed to be the man for the job Discussing the various a moving liquid surface seemed the most likely. The next step in reciting such an idea

approved by the YTV management They show the vanous stages of the ammation.





BT - all those shape fulls per for some ratio braphics

TV station Identify Symbol

For a vanety of reasons, the production of station logos - idents - has become the testing ground for new computer graphics techriques. TV companies are not shy of spend. ing each in compression for both viewers and advertisers , so the prestige of a successful togo is important. TV companies are also in collaboration with the advertising industry. Its tinancial clout and technical expertise. In ramming home a visual message are readily avariable. Flashy idents that are more than just corporate symbols are therefore almost neviable

the emergence of the glistening gold. consider the software was not yet written the ground. Next came the difficult bit

Simulating software

Having said that he could do the impossible using the same basic principles as are avail able to Armga owners from Sculpt 3D Although the groundwork had already been done by other people if was still necessary to enter to devise the algorithms that accuratewhen acted upon by arrange of locous source of waves produces a straight line or These months of working day and night

and the simulation was complete but although it was technically correct the sur face movement still tacked a certain something that McEwan could not quite get right conswer In the end the tinishing touch was sketching the water movements from his hotel room overlooking St. Katharine's Dock in Landon the intuitive clue was found.

With the insight that these sketches provided. McEwan was cible to perfect the ani. mation a time example of the value of col laboration between software designers and

A system called Doris A still from the final sequence can be seen

on the previous page. Electric Image use a system they call DORIS It consists of a con Graphics IRIS workstations and a Gould POWERNODE frame-butter developed by less the final image shown above took over on hour to render (point) - though it IS produced at an incredible 16 000 line resolu-

The final sequence rendered at lower

compares to about 30 hours for the mackup home computer If you have the time ung a tary-traced sequence rather easier. Your results will be poor compared to DORS's - but then she cost 1500 times the price of am Amega¹●

NEXT MONTH

Next month we promise - cross our hearts and hope to die - that we'll be bringing you a selection of randers' artworks; prassure of space in this Christmas Issua meant that we had to hold over those exciting pictures.

And If you don't think you're in a fit state to be showing your work around at the moment, don't worry - wa'll also be starting our How To Do it series on computer graphics; could you be the next Leonardo? You won't know

unless you try; so don't miss tha next ACE1



Amiga ray-traced chevron Produced with South St. Obreastly much lower resolution and the reflective effect is still quite dismetic. The most divinus class to the fifther

ance in the class aliasing (pagging) and the less plassing reflections. After a week of trying to got this effect with the Mirror Tautum aption of became obvious that Shary actually was the cornect chace. As each full my leads takes about 25 hours it can take some time to detect such

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Fearless reporter Chris Jenkins strides in to the arcades to struggle with sauidoids in the horrifyingly funny Xenophobe, then blasts heffalumps and vacuums a few ghouls in Ghostbusters



XENOPHOBE Bally Michagy

20p per game

Xeriophabe is so marvellous that I had to be dragged away from the screen screaming and locking Based very loosely indeed on the plot of the movie Aliena, if combines sublime outcon-style graphics with non-stop

Each of the maximum of three players has a gun-amp with a trigger and two themb-buttons. The screen is split into three strips to show each player's point of view. As the game progresses the players can either stick together to protect each other - in which cose the view in each strip is the same - or go their separate ways in to differ-

The game is set on a space shuttle intestad with the most revolting slimy aggressive



mutant monsters you could mag me The charge ters - blessed with with names such dit?) and Colonel Schikn - bear a

marked blance to tamiliar taxes from Star Trek and mitally moleculae in the transporter room of

As you move through sets of sliding doors into the separate chambers you will be attacked by a nauseating selection of monsters scuttling saudoxis which by to eat your legs, shell tike creatures which shoot forth stranging tentacles, ray-eyed mutants who melt your brain, and the horrifying leaping slug like Xenos themselves

At each moment labels appear below the screen to show the current tunction of your two thumb-buttons. This can be to tump crouch throw at a manster pick up a gun throw a bomb or use another object The main trigger is always either Punch (d you have no gun) or Shoot (if you do) An infestation level display appears at regular rvals on the walls of the meridan

While blasting your way through hardes of slimy mutants is all very well you will need to use some strategy to clear the shuttle before it solf-destructs, using Soppy disks chemicals and pass ourds to gain control of the ship's defence system and wipe out aliens faster. Otherwise you will overrup and will be either anawed to the bone or fromported back to the ship when your time runs

Xenophobe is outrageously lungy with

some real mamonis of honor as tentertee throat and try to eat your tone oil The accompanying sound effects leave little to the Imagination and the tacks) expressions for one hilanous. Goodness knows how long it would take to master this game so someone pieces produce a home micro version, before I spend all my money

GHOSTBUSTERS

Rata Fast 20p per game

It's been a long time coming, but finally Ghostbusters has made it to the arcades. To be accurate this is The Real Chostbusters based not on the film but on the American contacts as yet unseen on this side of

The good news is that the game is noth ing like the Activision home computer title which was well-received in its day but is only average by today's standards. The coinop is a fast-moving shoot-em-up with planty of laughs along the way

convincingly synthesised music from the film and a selection of ear-



bending sound effects. Ghostbusiess orders for up to three players at at a time. The three control handles and sets of fire buttons are coranged in a semi-circle and extra players can join in at any stage of the game

The rules are pretty sample mave your nicely-chimated Ghostbuster across the roof tops fighting your way through hordes of attacking monsters. If it moves blast it and it it doesn't move blast it anyway to be on the safe side. Your rapid fire energy gun will blow away most of the ghoulies you encountry, you then use your sigting beam weapon to vacuum up the resulting spectres in to your back pack Go must with either weapon, though, and your energy will fall to It's almost impossible to get through the

early levels without a little teamplay, ideally two players shooting monsters while the other vacuums them up You'd have to take turns, of course since the more ahosts you copture the higher your score The monsters are great winged balloons

with flickening tongues elephantine blobs and cowled and fire-huring warlocks to help you out there are severall scons to pick up, a Ghostbuster logo to extend your trepower, a globe which gives you a temporary stateld, or bottomy to boost your backpack power Beware of the skull which appears when you kill ore tran monsters this will dangerously drain your energy

> Many of the special bunus stors are surrounded by bobbing scripes. It takes precise to manoguyae through these while tighting oil attacks, but if you manage it you get the chance to corpture the Green Ghost - a fast-moving spook which scores you a big bonus Watch out though, for the time limit on each level and your continuously falling

Ghostbusters is enormous fun in many ways its a noiser and flashier version of Gounder While Ghostbusters doesn't have the moze element which made Gountlef so compulsive - the next level is always accessed across the narrow footbridge at the top of the screen - there's the same sense of frantic action and the demand for co-opera tive play Should be a hit - especially if the numeured Ghostbusters 2 movie really doss make it to the screens a

ERFE SOFTWARE!

Every month there's a fabulous software prize for the best ercada tip printed in Tricka 'n' Tectics. Last month Deeno Schoffeld picked up a copy of Stargilder in return for his Double Dregon tipe: next month it could be you - but only if you put pen to paper and get scribbling. Send the goodsstating which computer you own -

Arcade Tipe, ACE, 4 Queen Street, Beth, BA1 1EJ





AWORTHY SUCCESSOR TO THE EVER POPULAR MATCH DAY FOOTBALL SIMULATION --A GAME WHICH HAS REMAINED IN THE READERS CHARTS FOR 3 YEARS!

Written once again by Jon Ritman this NEW Match Day is the result of all the customer feedback and advice on

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eadliest dreams.

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agine that space dominated by a tyrannica

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Bût if you don't



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KEYBOARD CAVALCADE

..So you want to make music with your computer, and you know that the best way to do it is with a MIDI keyboard. Where do you go from there? Chris Jenkins checks out the competition and conducts a few auditions.

OVER the last couple of assues we've to the misoduced the concept of MIDI to Missod Instrument Dignost Instellations standard with a discrete section of which allows your computer to control selections: missod instruments and effects Wave exploited something about the necessary infections and missos storing pool of the property of the control of the missod instruments you can buy? The complete last will give you some further story with the property of the control of the will give you some further story of the control of the will give you some further story of the control of the will give you some further story of the control of the will give you so some further story.

We've set a price limit of \$600 which claves us to include some pretty impressive instruments without going over the top Fust though, a few notes about some of the jagar youre likely to encounter in your search for the positions.

The two main classes of MIDI instruments one symbolises and home keyboards. While the technology involved and the sounds produced are often very much the same the two types differ very much in the sort of families offered.

Home keyboards are intended to be enand intended hos for use entendermany yearsel and the termidy. They normally have kindons such as drawn machines single-famger chards and auto-occompanisms built in they often feature bottlery power and they draws clavely unclude built in species, so you don't need to connect them to an ampatier or in to hear them.

Datally you are given a small selection or grown or small selection or grown or small post sources or a chore keyboard or grown or grown or source or source

The simpler choice then is to buy an allmone hame keyboard if you have any real commercial musical ambitions though go for a more feasible synthesize but be peproved to find yourself almost insentiably going on to spend maney on a selection of drum machines eitho units, synchronises mixes porto hays malitancis recordes mixes porto hays malitancis recordes and the whole technological Spaghett Junction of modern electrons; recording

Yamaha SHS-10 ****

Latest and zariest MIDI keyboard on the market the SHS 10 is stung over the shoulder and played the a guitar. The two-dird-a half octave keyboard is a little short tro serious use. Sized on the neck are the north-hard wheel and not touch. controls for rhythms, autochords, effects sequencer and the demo lune, Wham's 'Last Christmas' Nice FM sounds but a pily that there's no MIDI IN

KY8D SOUNDS DRUMS FEATURES SPEAKER MIDI PRICE 32 minuture F C 25 FM presets 8 note 25 FM ABC, chard sequencer etc 2 wath OUT only



Technical terms

A two behalf defeations. The last prepares, Mechanisms. The design process by wellder formulae symbologisms produce according for the control of the process in control of the control of the process in control of properties. After it which there for an extra properties which is the control of the

When loving of all this feature arm When loving of all this feature arm such as the field and this graph models and as the field of this graph of the SES 12/4 - think of they are much or without a controlling jury board years as without a controlling jury board years as without a controlling jury board years as of single pumping lamphoods such a control sist many under the controlling of the pumping lamp and the controlling of the control sist many under the controlling of the pumping lamp to the controlling of the conposition of the controlling of the con-trolling of t pick-of tip life of couple of hundred pounds

Ratings

and span of the large SOUNDS the number of present proprietinable stands exhibited and manufactured to solids which case be played simultaneously (the judyplaney) DROMS the number of rhythin patient chelicids. PLATURES the bocompountain bounters such as ACC, SCC of their sequence recorders, SPANEZ, the number and power of the built-bearing such as a first in the supplementation of their case through the supplementation of their case of their case

N. O.T., and cost index-sectionary, TRIII, which proves March grows March data undersigned for confinite featurest allowing several to be confined legisters PROC \$1.000 ft Principality VAI PARTIES grown on develop variety value was recognitive, and adoptive the before. The classes several things produced the process for each perfect or training of the sealth will stoke pro to produce were septimized or the produce was approved and provided and produce the sealth will stoke pro to produce was approved and the produce was approved and produced and produced and produced or self-sealth will stoke pro to produce was approved and produced a

Farfisa FK 58

One of the many Italian keyboard manufacturers, Farfisa doesn't gute seem to have got the hand of the mobern keyboard business (but check out their TK80 a later model reviewed below that promises well for the future). The MIDI leatures of the FK58 only work on MIDI channel I, and for some reason if includes an RS-232 part which appears lotally useless. Conventional organ type sounds rather than FM

Full size 61 notes C.C. SOUNDS 6 presel analogue 8 note DRIIMS

FEATURES SFC, Arprogro, Trio SPEAKER MIDI IN, OUT RS 232 PRICE

Viscount KB200

**** Notable for its full sized keyboard the KB260 produces some full analogue sounds and excell lent preset and programmable PCM rhythms. It also features a very powerful speaker, but bear in mind that it's mains powered only

KABU Full size, 61 notes C-C SOUNDS 10 preset, 8 note DRUMS 12 PCM plusprogrammable **FEATURES** Autobass SFC, Ameggro etc SPEAKER MIDI

Casio CZ-101

PRICE

Officially discontinued now The CZ-101 is still available in many shops and shouldn't be ignored The limit Casio to he based on Phase Distortion a simpler version of Yamahas Fre quency Modulation. The CZ-101 is capable of one aling some excellent realistic and synthesised sounds. Multi limbral over MtDI (ri plays four voic es monophonically at the same time! the C7-101 is larrly easy to program. The big beef is that there are very lew on board sounds, and extra RAM cartridges are ndiculously expensive and hard to get Like the Yamaha DX-100, the CZ 101 has miniature keys, and if you can I sland these you should look out for one of the larger CZ synths

KYBD Miniature 49-note C-C SOUNDS PD 18 prese 16 programmable more on RAM DRUMS NONE FEATURES SPEAKER

IN OUT THRU

Casio CZ-230-S *****

A corker Using stunning gresst sounds based on Casio's impressive Phase Distortion synthesis the 230 S also festures heavy PCM sampled drum palterns, and such professional touches as a pitch bend wheel porlamento (girde between notes) and full MIDI. It's multi-timbral over MIDI. (playing up to four different sounds at once under control of a sequences) and there are also four programmable memones though you'll need a

software edeng package to use them. Basically a

KYBD minuture 49 C-C SOUNDS 100 PD preset 4 programmable, 8 note DRIMS 20 PCM, preset/programmable **FEATURES** Rhythm chaining SPEAKER 310

MIDI IN, OUT THRU (Multi limbral) PRICE

One of many keyboards leaturing "teach yourself music" facilities. The 210 accepts ROM cartnidges. containing presel lunus LEDs above the key board light up as the tunes play, waiting for you to hil like right note before continuing Proerammable PCM rhythms and full size keys add to the 210's attractions for novices.

KYBD Full-size 61 note C.C. SOLINDS 10 8 note DRIBAS **FEATURES** memory arpregato etc SPEAKER 10% Mini PRICE

waveforms, programmable fifter and amplitude envelopes and selectable MIDI channed World seeing if a fouch over-priced Hohner also produce this model badoeD as the Hohner KS49

KYRD Ministure 49 note C-C SOUNDS 20 upi 10 lwr editable 8-note DRIBES FEATURES autobass, harmonise etc 2x1w MIDI

Cosio HZ-600 ***

€349

PRICE

Getting confused by all these Casio's yet? I know grammable hybrid with simplified PD type sounds Features include RAM cards for extra voices and song slorage 32 bigital wavelorms five LF0 waveforms programmable filter and amplitude envelopes and selectable MIDI channel Worth seeing, if a touch over-proced

Full-size 61 nates C-C SOUNDS 20 upper 10 lower vanable 8 note DRIIMS SPEAKER MHOL IN.OUT. THRU PRICE 5349



Casio CZ 220 S

But this one caught you out it's a bigital prano the cheapest around. The CPS 101 is louch responsive playing louder or softer according to how hard you hi the keys. Touch sensitive key boards are usually weigh in all much higher price lags, so this model is worth looking at for that fee lure alone. Its Ien presets allow you to choose acoustic electric, honly tork and other types of sourbs - but does it sound like a prang? Well it's allerth the pace of a concert grand

KYRD Full size 61 ages C C SOUNDS 10 preset, 8-nale DRIVINS NONE **FEATURES** SPEAKER MIDI IN OUT THRU PRICE

Cosio HT-700

Using a much simplified version of PD synthesis the HT-700 hrts a ruce balance between preset and programmable home keyboard and synthe-

Features include RAM cards for extra voices and song storage 32 digital waveforms. Invo LFO

Cosio CT-630 A big crunchy keyboarb this one with lots

sounds, ryhthms, clever gimmicks and MIDI fac Some original sounds like Typhoon Plunk Extend along with the stendard Uli Organs and Manmbas nice to hear modern tronic sounds along with the other drums. There are three MIDI modes which splf the ki board into biflerent zones, but as it only transon channel one this isn't as useful as it sound

Once again, There's a Hohner lookalike - I KYBD Full size, 61 note C-C 10, 8 note DRUMS FEATURES SFC, Autoharmonise keysplit etc 2x 294 MIDI IN OUT, THRU

PRICE

Yamaho DX100

An increbible package, the DX 10 synth is exci howling guita's wicked basses, clanging plant

MIDI

PRICE

zooming synths and bright strings

Fully-programmable Your-operator FM lech node of the world tamous DX7 but do down a little - combines with protability till MDI spec and a massive 192 preset sounds which can be transferred to and edited in the 24 processmable memories.

Pitch bend and modulation wheel breath controller size. LCD eithing display, and a host of other features make this the choice of the decated muso on a budget. If you can't stand the tim keys, check out the DX27 – 61 full-size keys plus an almost it-dentical spec – but \$150 most.

KYBD	Miniature 49 notes C C
SCUNDS 192 pre	set programmable 8-note
DRUMS	NONE
FEATURES	NONE
SPEAKER	NONE
MDI	IN OUT THRU

Casio HT-3000 **** Like the others in the HT senes a good cross

nd

use the center in the HT servins, a good crossbelieven programmable flare. Claim, LLI sounds upon 32 Wavelerns, live LFO waveforms and programmable filter and amphitude enreliques adjusted using a rotary out Lot of the reside post of the company of the company of the reside plant's beginning with more lade features then the CZ 230S. Again. The Highly KSR III also process designed to Highly KSR III a



OE 1407

The cheapest Yamahu MDI forms keyboard is an impressive blasst featuring supplied by voicins and PCM drums. MDI implementation includes selectable channel includ and even synchronisation by MDI clock palse to the drum section, which less home keyboards can boast. Not too many estimatous fells, either overall possibly the

KYRD	Full size 49 keys C-C
SOUNDS	FM 16 preset
DRUMS	16 PCM
FEATURES	SFC autobass memory etc.
SPEAKER	2x 2 5W
MIDI	IN OUT
PRICE	2479

Viscount KB 550

best home keyboard at the price

Reader digitally visignifieded samples from the base for the RG 550°s ounds so it's more interesting to play than many home keyboards. MIDI implementation includes OMNI coloif and internal or adternal color control of the accompaniment features. A good keyboard then but a little expensive.



KYBD	Full size 61 note C-C
SDUNDS	20 upr 10 lwr more on RAM
	cards 8-note
DRUMS	20 PCM more on RAM cards
FEATURES	SFC autoharmonise/bass, etc.
SPEAKER	2x2W
MIDI	IN, OUT, THRU
PRICE	£425

Ella has only recently broken away little the segan-only and of the market and the EHIOS straks some pointered for the future. Good preset noses swriter to Yamaha s FM with four programable memores featuring parameters for waveshape, timbre, and pitch, and filler enseighes A very good selection of servicinen. PDM datum sourchs in the programmable thythem.

KYBO SOUNDS	Full-size 61 notes C-C 15 preset 4 programmable
DRUMS PCI FEATURES	8 note M 18 preset 4 programmable SFC, chord memory
CDEAVED	solo chard etc

section, and splittable MIDI channels.

KYBD	Full size 61 notes C-C
SOUNDS	10 preset, 8-note
DRUMS	12 PCM
FEATURES	SFC autochord memory etc.
SPEAKER	2x 5w
MIDI	IN OUT
PRICE	2496

Farfisa TK80 **** Lats at interesting features here. The preset

sounds are digitally in-synthesised from samples and filters are special soundfil in which a percussive and sustained tone are tayered together. You can program your own PCM highters, and the MDI implementation includes virtible channels for inspirit and incrive and spitiable societies. It also responds to MIDI Program Currage and Song Pointer information, which is unusual. Check it out.

SOUNDS	30 preset
DRUMS	16 PCM
FEATURES	Autochord memorychard,
	autosofo Inc etc
SPEAKER	2x 4W
MIDI	IN OUT
PRICE	£499

Gem DSK-6

***1

Relastic. Sample Wavo Processing gives good effects and you can layer two oil them logisther to produce thicker sounds. There are also manual play buttons for the separate drum sounds, good MIDI implementation and succilient socialisms.

KYBD	Full size 49-notes C-C
SOUNDS	16 preset, 8-note
DRUMS	14 PCM
FEATURES	ABC harmony
	enchanced accompaniment
SPEAKER	2x 5W
MIDI	IN OUT
PRICE	\$555

Kawai MK-10

The business Based on Kawas Dajital Wave from Synthess, the MK-10 sounds great and taxs some awesame features, wholly response find harder and it plays loudery patch bend wheel keypolit, seem onlythms, full MOI wan different charmeds for the basis soils, poly counter misody and durses, portaments but masteres speakers and you can even play the drum sounds from the keybeard. Accomplete MIOI station in one bot

KYBD	Full-size 61 notes C-C,
	velocity sensitive
SOUNDS	18 preset 8 note
DRUMS	16 PCM
FEATURES	SFC memory dual Inc.etc
SPEAKER	2x 10W
MIDI	IN OUT, THRU
DDICE	2023

/iscount KB-880 ****

Digusty re-synthesised sampled sounds here again, but this time you can combine wavelorins envelopes and modulations to produce 10,000 combinations. Very powerful accompaniment and sequencer opcors make the KB-880 an impressive if expensive choice.

KYBD	Full-size 61 notes C-C
SOUNDS	10 preset, programmable 8 note
DRUMS	14 PCM
FEATURES	S SFC chardmirmory,
	autoplay sequencer
SPEAKER	2x 699
MIDI	INDUT

Yamaha PSR-60 ****

PRICE

Similar to the PSR 50, but features the Music Programmer a sequencer which allows you to record chard basis and sole funds separately then play them back together with the other accompanioner features. MIDI clock synchronization to extendi resturners a supported and you can playthe PCM drum sounds from the keyboard Plenty to get your teeth into

KYBD	Full size, 61 keys C C
SOUNDS	16 variable FM
DRUMS	16 PCM
FEATURES	ABC, SECM duel
	rhythm vary etc
SPEAKER	2x 2 5 w
MIDI	IN OUT
DDICE	C600

MIDI MADE SIMPLE

MIDI (Musical Instrument Digital Interface) system which as you should all know by now is the standard communication system

samplers and electronic pumps to effects. digital guitars wind instruments drum machines and sequencers can be processorcontrolled and thus MIDI-equipped these days. In the case of the last two cotenories we're talking about units which make things happen over a period of time - playing musical notes of drum beats in the pre-programmed patterns at a speed decided by

Using several such units together means they're bound to drift apart even if you set their displays to the same BFM (Beats Per Minute) value MIDI includes several timina codes to help you do this the most common. is the simple Timing Clock (which has been affected by changes in the MIDI standard since its lounch, we'll concentrate on the airtent state at affaits, but point out that early MIDI instuments may need an update chip to make them compatible with the latest models)

If a sequencer or dram machine is ninnung it sends (or receives it it's slowed to another until the MEDI TIMENG CLOCK (code 248) at a rate of 24 times per quarter note these clocks are sent in between other codes such as NOTE ON and NOTE OFF Being transistor-level binary codes they re-totally different from the Sync 24 clock pulses used. by older non-MIDI drum machines although you can buy interface units to convert one to

Other Timing Codes are 250 (start) 251 (continue) and 252 (stop) the operation of which are fatrly obvious. You can refer back to Issue 2 page 34 for a complete list of MEDI status messages and their respective codes

Recently moves have been made to make MIDI compatible with SMPTE the Social ety of Motion Picture and Television Engi neers' time code system SMPTE codes which unlike MIDI can be recorded on tape are long binary streams containing a time in hours minutes, seconds and trames, the number of frames per second depending on means that there are four different kinds of SMPTE worldwide

When SMPTE timings are expressed as MIDI codes they re known as MSMPTE (MIDI-SMPTE), or more popularly at MTC (MEDI Time Code) Very few MIDI instruments respond to MTC as yet but its the coming thing and will mean that you can lock your MIDA drum machine or sequencer to a film or video and have it start at exactly the right part of the tune wherever you start playing

In control

MIDt we haven't covered a Controllers - the knobs and pedats on your synth which give

Pitch benders footswitches tootsedals and breath controllers are all MIDI Con. trollers MEDI assigns plenty of codes for such purposes but doesn't specify exactly how they should be used except in the case of the three-byte code 1011AAAA, 06888888 OCCCCCC This indicates Controller Infor number 0-127 and controller value 0-127

When B-0 were talking about the synths Prich Bender so obviously MIDI can bend the prich of any synth on any channel from 0

Controller 0 is always the prich bende but other knobs or siders (continuous con trollers") cam be assigned to any controlle number 1-31 and on/off switches can be assamed to 64 95

Control by velocity or offer-touch on the keyboard which could open or close a filter change a Modulation Index or increase vo time or vibrato death, is death with under dithere are different codes for each category but every one can be assamed a MID) chan nel so only the correct synth in a multi-synth

Lastly there's a MIDI Sample Data Durin standard in the process of development if hazdly complete yet since everybody's san plers work in different ways but mos scrapkes will now allow you to exchange sample waveshapes via MIDI if not all the double the normal speed for MIDI data trans fet, it may be that all of MIDI will be speeded up to this rate before long but the estab ished lower rate will probably not be con

PANEL OF EXPERTS

pond to readers' MIDI problems, whose of us who think that a status m ady to leap into action for the very next issue of ACE, so g





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THE SETTING

The game is set in New York City in the late 1990's. You role-play the part of a gangleader who controls a group of misguided youths. The city has severley deteriorated. The brave citizens who remain are now in a life and death struggle with the ever increasing number of drug-crazed street gangs. The New York Police Department is severley undermanned.

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On a typical turn you could send your Pros. Punks and 'Cruits out so take over a cog, le of cit- blocks and ambush an enem arm, nob or firebomb a building, buy and sell drugs, have yourselves a party, terrorize the residents, and much more.

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You are one of the eille. _narchuffing alone behind enamy lines. The enemy controls the terrain, hidden in bunkers and machine gun nests. _you may be surrounded. The action is fierce as you control one sobieth battle against overwhelming odds. You'll need skill and strategy to our movesure your enemy, plus courage and some buck to movesure your enemy, plus courage and some buck to paced simulation with 12 desporate missions is 3 different regions of the world. The possibilities are endless! AIRBORNE RANGER Achallenging combination of day and suspense. Available for the Commodore 64/128. Cassette £14.95 Disk £19.95.



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GRIM



What a Christmas! The Pilgrim joins up with the White Wizard to take you on a red-hot romp through Plundered Hearts (is bondage back in fashion?): Nord and Bert Couldn't Make Head mer Tail of It (but can you?); Beyond Zork (FAR beyond Zork!); Pat's Patch: Shades Diary: and just about everything else you always wanted. except the brushings from Ol' Whitey's beard. So drop that rod and staff and read on...

Do INFOCOM have the key to your heart?

.You are intensely aware of the strength of his hard seaworn body, of the deep sea-blue of him eyes And then his mouth is on yours, lips parted, demanding, and you arch into ble kies

begins Infocom's adventure into the regims of remantic faction - the panting yearning (but ever so proper) and above all fernance world of Mills and Boon Will the challenge of the game make a man of you? Or if yourse already made of puppy dogs talls will abandoning the trouters for a ection book give you a kick worth nemity

Hardly surprising really, this excursion. into Berbara Cortional territory Infocom's last selecte, Lurking Horror was a straight-for ward derivative of the harror liction of HPLovecraft and others and Flundered Hearts simply continues this search for new sources of inspiration that our bring fresh blood to the odvenhire scene. There seems little doubt that the bays and axis at Infocurry one trying very hard to come up with new slamts for us players thake a look at both Nord and Best and Beyond Zork later in this assue if you don't believe me) so the question. in this case is not only whether we have a good new game, but whether we have a good new germ

As an adventure, Plundered Hearts can be compared with Hitchhikess in that there is relatively little exploring to be done. The first half of the game involves very few locations as you find yourself on board ship travelling local buy wig. Jean Latend, to the effect that your father is mortally ill

En route the boat you are travelling on is captured by pirates the captain of whom, Nicholas Jamison, professes to be both a gen tlaman and a triend of your lathers. He is also devilishly attractive but more of that later Throughout this early stage of the game you will have been able to type WAIT (or Z) continuously without stuch all effect. and even if you aright a more active strate

CV YOU Will discover only three locations. Ewo of which are bads (in which you are alone I might adds

Finally however the pirate ship arrives at St Stristed and Copn Nick paps at to wait Latened and thop him into pieces. You now have a chance to explore the vessel and solve a couple of puzzles. Only one of these presents much difficulty and the Pilg judges It to be something of a cheek because it is time-based - 1 e the solution to it appears out at this air only other you have made a pertop number of moves

Having escaped from the ship (and taken care to have everything with you) you make for Latond's residence to find your father, who you now have good reason to believe is a pasoner these. You are also by this stage more or less convinced that Coron Nick is a meany old soul a point he soon tries to drive home with much labal contact There's a ball poing on, which you manage to penetrale, and the old days con I keep his hands off you. Neither can the other old devi-

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WINTER 88



WINTER OLYMPIAD'8

Winter Olympiad '88 is undoubtedly the best winter sports simulation to date. It features the classic winter olympic events; Ski Salom, Giarr Slalom, Two man bob, Ski-jump, Biathalon and Speci Skating. These have been depicted in a way not seen on any home computer before. The result is a phenomerally realistic and spell-binding game.

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IBM £19.95









Type grant

- Latend - and the game becomes a challenge to avoide the clasps at the one seek the clasps of the other and find Papa into

RELEASE BOX

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Compared to other Infocom releases however there seems to be much less gameplay in Plundered Hearts than say, in Sor carer There one 25 points in all to be grathered and the Pila had gamered 19 in one afternoon's play. The croatamatuna's excellent of course with various participants coming and going at appropriate times and delivering appropriate remarks en route in this lost respect the come is slightly similar to

Suspect, which also portrays a country manson where a ball is taking place So as far as the challenge is concerned, I

have to say that this is not one of Infocorn's side? What about the style of the text? Most of all (because I know this is what you're all interested in) what about the romance the love the unloaded LUST the SEX There isn't any sex - at least not what

most modern saves would call sex. There is however a great storvine and the text is excellent - every bit as good as the early Infocom masterpieces almost on a par with

Lustang Horror (one of my favourties). Above all it stunes out precisely because it is draw and on a new tradition

Commodore 64 owners will as usual rave in trustration at the lack of a RAMSAVE tacisty - the 1541 being most unsurted to Infocom games - and the resett to that this game is slightly in the more than makes up for a company totaly with adventuring tions like this we all have a word to . RATEL

SYSTEM 93 ENCOUNTERS 94 CHALLENGE 78 LANDSCAPE 90 VERDICT 905

NORD'N' BERT

INFOCOM lunacy for puzzle addicts.

FROM sundance to wordplay Infocom's sudden search for new ideas lakes another twist. Nord and Bert presents. you with eight minu-scenarios, seven of which may be played in any order to yield a sense of passwords that gives access to the eighth The unfortunate citizens of Purster have been subject to mysterious differations ther world back on its feet and restoring

You do this by enlening each scenario topsy-turvey situations in which the night mout from yours truly will transferre your location and/or the absects within it. This process is repeated until you have scored all the possible points within that section and isoewed in return your password.

Rother than being an adventure in the traditional sense each of these scienarios is really just a sense of verbal puzzles. In this tends gameplay is eather similar to early Spectrum adventures in which you could spend hours trying to guess what input would take you past the obstacle to the next location. The problem is that most people are likely to find approximately half the puzzles extremely easy and the other half almost bed Mord and Bert like a game of Trivial

RELEASE BOX

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Nord and Bert Couldn't Make Head or Tail of It

ITFOCOM

Aport from substituting the pleasure of puzzles for the wonder of exploration. Nord and Bert also rings the changes on a number of other traditional adventuring habits. First, there are no directions. In each location a list of adjacent 'rooms is printed at the top of the screen. To travel to one of these you simply larly there is no EXAMINE command and thus function is performed by typing the

Fams of crossword puzzles and other Those of us with a disposition for exploration and discovery may find they patience screly tned Since puzzle manazines are the best selling category of publication in the UK the Pig can only conclude that adventuring has spawned a new category of computer entertaxament with tremendous potential I sug gest we call them 'pootles' the players pootlers', and look forward to hearing what readers think of this new out form @

White Wizard speaks...

orked longue. I'm straid I just can't its issue of ACE to pass ree by recking comment on at issue two of

inst, I reckon Plundered Hearts id get a lower reting. it's ridicul for any sessoned advanturer en £25 and £30 for II

red Hearts. The soli th appears out of 'thin air eare only as a saving grace because hi d to crack the puzzle in time! Caugi Hord and Bert - I really enjoyed this

ng something of a quiz and pur I think the point needs to be m ison I can think of le The Travel on the PC (reviewed in th , however, i'm concerned about the

I agree totally about the poor com Staine - it is infuriating - het once you . Of course it's out a game for tr of adventurers, but I think that as will not quite a lot of enk

Oh yes, and before I go, where's the espective review of Suspect, sh? Overen again, have you? Make aure it gets th, fatty, (It will, baldy, Pilg.)

93 ENCOUNTERS 76 85 LANDSCAPE 85 VERDICT 895

BEYOND ZORK

INFOCOM introduce the Coconut of Quendor

ROLE-PLAYING programs tend to fall into two types - they're either games in which you form a 'porty' of rogues to go adventuring (The Brend's Trate Mountaneous and the Ultima series being good examples) or where you simply build up your own character and its attributes (as in Moebius or Ring of Dark

Unlike traditional adventures your 'game persona changes during play. You can usu ally save your character(s) to disk and develop them over several games often

Unfortunately this business of character development tends to be pretty timited because the game formats themselves are ing and conflict Puzzles are basic and there is little strategic planning to do You just secreth steal and do your best to survive

Enter Beyond Zook with two tages Infocums strength in game design

and their parser The game is of the single character type

Dextenty, Intelligence Compassion and longer in the initial stages of the game

other role-playing games apart from an onscreen mapping tookly. This in itself is somelocations at a time. A good map is still a useful asset and the game is easily charted

The Inforcem touch of mystery and imogination strikes from the very first screen nano you find yourself in pursuit of the infaan agretul management of your financial you need about 2000 for a good suit of amour) spells weapons and other game

Beyond Zork is a tremendously enjoyable blend of traditional adventure and role-play passing, and exploration aspects of an adventure combined with the challenge of manipulating objects for trade and fighting as well as solving puzzles. And ot course you must develop your character or die in the attempt. The combination of the two styles gives a game of great depth, with the game where you have discovered a grant onion in the kitchen of the local tow

SPERM ONTON

Outh' It's tough as leather

The cook's scowl changes to a mulicious gran 'Listen boy', he says You look like somebody who knows great vegetable when he sees one Ye want this onion's There's an old bottom of wine lying downstairs somewhere Bring it up to me in one piece and the quant colon's yours ' He glances at the cellar door and shudders 'Simple.'



New screen law-out for Beyshol Zirck. The map on the right highlight the current location and gaves east information, but not much also

94 ENCOUNTERS 94 VERDICT 920

RELEASE BOX CS4/128 F24 99/0

ATARI ST	£29 99dk	REVIEWED
IBM PC	£29 99dk	MMINENT
AMIGA	£29 99dk	UNDECIDED

SLAINE

MARTECH move Celt from comic to computer

THERE convert comics into computer programmes Scott Adams took the Marvel superheroes and stuck them in rather prima actually tried to create a comic on screen complete with speech bubbles and scrolling though fanatics could do worse than check out Strillip and Co from Palace which adopts

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OUT NOW

OLIT NOW

the Melbourne House approach and

Some is symething completely different, superficially at least Based on the 2000AD comes strip here of the same name the proaram presents a colourfully decorated screen featuring comes displays of your location. the characters in it a text-frame, and above it - a blank area across which various commands and playing options scroll smoothly and rapidly

Siame and his side-lack Ukko (both of whom one recognition touthful an appearance and characteristics to their excellent comic

Can you click on Defend below you get the chap? The level right hand part of the display shows bequest cause picking of you page objects carried and your vie companion little

samph and destroy quest with numerou ogres dwarves and other enemies to do ba tie with as well as treasure to find an wrongs to right. Gameplay involves select used to and even then control is difficult if ple) The method is ingenious and imagina tive, the idea being that the options at thoughts fitting through Staine's mind bull is also highly impractical Combine to improclicality with a rather limited soman and you have a recipe for an intrauma attractive but senously flawed game

One thing Skame and the eather Red hawk have in common is the lavouring a programming techniques over storytine it not an approach that brings either lastn interest or intense player involvement but ways of structuring programs some of which may be further developed in future in th meantime you're probably better sticking.

VERDICT 615

C64/128 £9 99cs, £12 99dk

SPEC

AMS

16-bit Snapshots

Games from Infocom and a number of other US publishers have long been released for 16-bit machines. The popularity of the IBM PC in the States ansuled it a stendy flow of games, and the Apple Macintosh has seen some revolutionary programming on the adventure side. ACE will be giving increasing coverage to these games in the coming months, but here are a few tasters to what your appetite



This is the first of a sense of games originally written for the Mac and now appearing on the ST, cour losy of Mindecape in the US (and definbuled by Memorani) on the UK). Quite agant from some excellent graphes the system allows you in use the mouse to seen coars, select planets and even move them Most. Here you see the Prigner raining a desk to check there a neithnic underneath



Thieves Not there sensi-Two Hagnetic Scrolls siss Macced Se's the Power Well be look ing all some other Mr stanton ou - some of them are preffy elesageme



PC. Ultime IV Tale-playing games could maily benefit from 16-bit power end AAM capecity. gring them a poses and an Bird micros.



ST: Martville Manos

The French game distribut wa've heard. The charactee in the game actually much of what they may completely umstelligible Fremiers sell for the fature, but since were not form in seroled Females of side theed Theydel lifts per

Pat's Patch

This month Pat gives PAW users the chance to provide automatic exit printing...

The logic of our PAW routine is similar to that used on GAC, but a bit more hidding is needed! As with GAC, what we have to do is discover whether an exit exists in a particular direction for the current room, and if so, and the relevant message

PAW routine (enter in Process 1)

			'visible	oxits
		CLEAR	101	
	SOUTH	COPYFF	38	100
		LET		2
		HOVE	100	
				191
		NOTZERO		
		MES	"south	
_	EAST	COPYFF	38	100
		LET		3
		MOVE	100	
		ADB	100	191
		NOTZERO	100	
		MES	'east'	
		COPYEE		100
			33	- 4
		MOVE	100	
		ADD		101
		NOTZERO		
		MES 'we	SŘ	
	NORTH	COPYFF	38	100
		LET	33	5
		MOVE	100	
			100	101
		NOTZERO		
		MES	"north	
		ZERO '	101	

Line 1 This line prints the visible exits message and clears liag 101 for use as an

Lites 2 to 5 Each of these enther covers a possible direction, and all work m

MES

The number of the current location (flag 38) is copied into flag 100 b) Flag 33 holds the cutrent verb so this line sets the flag to indicate which verb we are considering (i.e. the number of the conversion noun) c) MOVE 100 looks up the connection table arrivy for the chosen direction and the

d) For future use, we went to keep track of the result of MOVE 100 for each drac ton so ADD 100 101 maintains e running total of the result placed in flag 100 e) Assuming that your adventure contains no connections to location D is result of NOTZERO 100 meens that no connection has been found for the direction under consideration. It Rag 100 contains any number at all () e is NOTZERO), then

Line 6 At this stegs, flag 101 will hold the total of all numbers returned by MOVE been added to lieg 101 so it will now hold zero. But if any connections have been found flag 101 will not be zero. If flag 101 is zero, the message none is printed

Letter from the SHADE

Sappho The Witch embrace of battle and bar-

Micronet's SHADES - the where real people get into

Life in Shades is a busy as ever The 80-coi. umn scrolling gateway is finally open and about time tool Players thus have the choice of playing either the familiar 40 column viewdata format with the blue sky on a red horizon effect or the faster scrolling format I personally prefer the scrolling game (when I can get on) which isn't all that easy as these are only a few places available

A new version of the game has been loaded the new rooms added puzzles on. This in itself has caused aude a str. with players complaining that it is too difficult, with too many dangerous mobiles

The changes looked good although if was obvious that players had to think harder than was previously necessary. Quile a lew players had the new version worked out after a few hours work. But as they have spent such a long time using the same teset. routine having to change to a more flemble approach it isn't really suprising that like game is a title downling at first

Wizard blottings

Meanwhile a popular topic of heated discussion in the Shade has been the number of

No Problem!

We're a bil short of space this month, but all proise for these tips must go to Derren Hebdan, Guy Derham, and M.Hodeman Don't forget, the more clues averyone sends in for this section, the more help readers will find

Witches Carddren Turn Turn Turn Tacyssup framstoms the cat

Whisky crushed shall digmond sheeps eve makes poten for ponila transformation Terrermelinee

The steps have to be looked before use Lote the bull in the ching shop

Hemestead The lathe retaining bracket the tweeds and the arty the he and wear if with the sud when in the club

Buy a suil with the credit card found index the bench. To get the job in the bank remember who gave you being more or less equivalent to the FOD (figger of death) in MUD

Some say that when a player has reached the excited ranks of the Immortals then they should be able to do virtually anything that they wish To some extent was they should. However, on Shockes, these are a number of restrictions that are placed on the waxards and witches One such rule is that Immortals should not gave out large exembties of treasure to mortals

This is understandable Immortatity would be de-valued it mortals could be given as much treasure as they wanted to get to Immortality However should an Immortal live in fear of grying out a few hundred points? Well was it would seem so Not so long ago Zikiag the wazed was biotted for giving Perkins a large amount of treasure and now Puzz has oone the same way. Who said that if was better to give than ?

Taturus is or should I say 'was one of the latest Immortals and he is now tarned for being the shortest-lived Wizard in Shades history After making Waterd one morning he accomplished Immortality for a whole day before his actions apparently added for the dreaded blot 1 saw Taurus on the game at few days ago and when asked if he was going to try for Wiscard again his regly was simply You be!" Did Tourus deserve blottong? That's not a question that we can answer the Guardians of the waards/witches and mortals have to abude by those rules

With all these Policemen about it's enough to make the most stable persona paramoid But then, just because you're para cret you

@ If you've any gossip for this column, oul! your hat down over your sers, chack no-one's listening, then malibox me on 019998149. Stay Shadevi

ZZZZzz Arm the gun below feng. Fine at the Target first then

I cover the hor with the hollow Drop the bulseve on the man quanting the border

Three weeks in Paradica Go between surpus marked in and press A to tale

Gel the stuffing to get past the bird Jump through the picture to the sex-rade Walk onto sea plug to get to cave

Cover the wristband with the start to stop Guzu laugh-Tie the roke and hoe together with the staff to lever the

Climb over the rocks

Adventure Helpline Launch! Check out page 144 for full details...

The Pilarim's Player's Guide to Hitchhikers...

ou've arrived in the Heart of Gold, and your first lask is to check out that engine icom. Take the spare improbabilly drive to the bridge - if you have trouble activating it put the small plug in it and The dangly bil (found on the plotter) into the advanced tex substitute (you did check the Nulnmal didn't you?) Don't dnnk if unless you want to lose points. You can then activate the drive and pop off to some alternate un-

The Bugblatter beest requires the towel or rather you need it. Try popping it over your head if you're having trouble. Don't healtate to vandalise the mamonal and make sure you gel the Interface

Should you find yourself playing Trillian check out Arthur, get the fluff and out it in the bag Ford should go to Arthur's house and give him the towel. After you've dealt with Prosset (he must be down, poor chap) make sure you give Adhur the satchel full and on The I humb before the first arrives

Zaphod should ensure his gets the toolbox, small key, and seal cushion fluff before he leaves the boat. The guards will drop their rifles il required, whereupon you can blast them if you're really clave; you'll then use The Ice as a Brownian Motion Generator but This won't help unless you out the flowerpat enside the Ihing - which will return to you on The Heart of Gold later

The war room as a doddle, really Just isten in, get the swit and make sure you take the particle. You'll then find yourself back in the HDG You should by now have tour pieces of fluff You haven't? Oh dear . Have you got the lacket fluff, and the seel cushion Buff, the setchel fluff and the but we can't give II all away, can we?

Pop the four fluffs in the flowerpot, was then take the pot into the seuna. Eat, arroy i and stand by for next month's final instalment. in which you finish the came Oh, and by the way don't forcel to take a

caseful note of the tool. You'll be jost without

Next month...

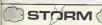
The Pilg checks out Jack the Rips the White Wizard examines a state The-ert American edventure, Sh

PBM AVALON

FREE

he chronicles of the 'Knights of the Avalon', is a new 100 player computer moderated Fantasy Play By Mail e from JADE Games, Startup is FREE, with further ums costing 70p, players outside of the UK £1.00. Ti ne features, 1000s of player armies and fleets cor stantly involved in conquest, a playing ar 1,250,000 sq miles with over 100,000 location highly developed class system of squires, knights, lord etc fighting to become emperor. An economic trad system with 1000+ trade items, merchant and politics nks, stock markets and trade treaties. Religions b on a planet wide network of temples and monasteries layers having the choice of accepting one of the twenty existing gods or creating their own god and tion with players. Alliances of trade, religion, politics and military might. + MUCH MUCH MORE, game limited only by the players imagination

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P.O.W.s FLEE

OVER 200 prisoners cover a fire months of planning and preparation. They used the obsessive time-keeping routines of their captors to their own advantage planning a series of sorties to reconnoitre implements and tools to ald their escape, to find possible routes to freedom and to execute their psinstaking plans.





1 JUMP AHEAD

EVERYONE has a special friendship but none could be quite as special than that of Head and Heels, the two intergalactic crime-busters who have just returned from

their Istest mussion in the Castle Blackooth. "We couldn't have done it without each other" smiled Head. Now you can see for yourself in the their incredibly inventive super-game. You'll marvel at the graphics in this 3D adventure and you'll just cream with delight at all the tricky problems facing Head Over Heels. There's something new around every correr?

Colour Vanishes

THE evil Zark strikes again to leave our world void of all its glorious colour.

Our only hope now is for the magics! powers of Wiz and his fantastic feline friend, Catelite to perform their wonderous deeds indeed, Zzap has already been quoted as stating "the finest release this year."



CHRISTMAS SPECIA

4 NEW

RELEASE NOW FOR TH



MAVERIO SKIE O U'

TOP Gun has gone through the roof! "Flyin never been so easy—the hard part is wanning!" a Gun. On hie latest assignment he just couldn't be st —flying supersonic and producing aerial manos that would fool a turbo-charged horse fly he quipped —'lt's simple, just enter the danger zone"

SCREEN TEST

Christmas is a-comin' and the software houses are slavering at the prospects of getting their hands on your cash. That's why they're bringing out all the big guns, and that's why we're reviewing more games than ever before in our history. 32 titles get the ACE treatment - and precious few of them are naff. Unless you've got pots of money it's going to be tough choosing between games of the calibre of Nebulus, Stealth Fighter, Bobsleigh, Madballs, Buggy Boy...but help is at hand; the ACE reviewing system is designed to give the clearest possible idea ot how good a game is and how long it's going to last you. So look no turther tor your authoritative Yuletide software guide

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THAT REVIEWING SYSTEM

Regular reasiers will notice some subtle but protound changes this month in the layout of but twowws.

To make our coverage even more than outh, we've introduced separate Predicted Interest Curves and ACE Ratings for all versons of a game along with separate comments boxes

The man review now tells you how the game is structured and how it plays the separate baxes let you know how each verson rates in terms of Graphics Sound 10.

You'll also notice that we've dropped the bots giving a readout of these ratings in tayour of a simple score out of 10 this was partly because of the pressure on space. portly because some people (no names, no pack drill) complained that they didn't find the bar ratings too easy to understand

We're sure that these tweetings will make the system work even better it's now cleaner to owners of whatever machine a game is released on just what we think of that version

99



PROJECT STEALTH FIGHTER

C64 128 £11 95cs £19 95ch OUT NOW SPEC £3 95cs JAN FEB 88 AMS £14 95cs £19 95ch JAN FEB 88 ATARI ST £24 95ch JAN FEB 84

MICROPROSE sneak you in to the skies

DESCRIBED as the all-but invasible archart the F 19 Stealth Pighter is America's latest all-weather reconnisionace and strike higher

Having signed all the necessary top secret documents, the player climbs into the cockpit and takes to the sides in an attempt to combat international terrarism Included in the game are four scenarios. Libra Per-

scm Guit North Cape and Cleahal Butope and these are various missons to be complete ed within soch secretic or give listyra milson could have the player destroying of wells of terminals S.A.M. (Suthare to Alt Massile) bottlery poder busikers and authors smooth lovers. Alternatively the player could smooth as and photograph, the institutions using the or-board 135mm, Renament

The level of competence of the opposing to force can be decided by the player from gene fundated and unsophabated to see seems (buttleway). Browing decided on and set the various parameters the player takes to the sky and worst the adone force main of these congregates—but made on the order congregates—but made on the players are verwiceness and therefore counts the food players are verwiceness and therefore counts the food players are verwiceness and therefore counts the food players are players player

The F-19 Steath Fighter can carry an impressive array of weapons and before

C64 Version

The supernial wall designed and the graphics are calburful as you'd expect. Sound, too, is up to stay dard with whicing singuals and authorial sound airplosions. Not as demanding interferburfly as it

GRAPHICS S IQ FACTOR
AUDIO 8 FUN FACTOR
ACE RATING 863



Make Bring - I'v time to elegate your skills at confighting

Gentlemen take polaroids..

your morals worth let you by over strangs and wonderful note and one photos gan the picque below then never fear. Proyect Steath Ropare can trave that sixyer from proposition of the property of the proposition of the property of the prope

LASERS may be a standard part of the but they steely play any great part have but they steely play any great part in brain games. Their softee a pity even though it only stratched the surface with its simple mirror managements. Visigues Robel showed what absorbing puzzles you could make out of optics.

Den't despots, leare tams. Where the Good of Pive duth't quate do the track for Virgin. Vertex's one and only Oosto Panoyi has come up humps with this new deficit emup. New you've got multi-discont marcos, abre-optic conduits polarising and relinating blocks to died with as well as bombs. Note and some throughly infunding cliens.

Its a simple idea really (though you need in think that's save your sanity). Each save in a lase and your arm is to connect the two using the option.

RELEASE BOX C54/128 £9 99cs, £14 99ds DEC 57 SPEC 48k £7 59cs OUT NOW ATARI ST £19 99cs JAN 78

devices to hand. These are mostly mirrors fixed in position but pivoting so that you can point them more or less whichever way you warn! Just use the joystick to more yous or sor over the mirror you, want to adhest hold

DEFLEKTOR MENICIPRAL CISE FROM VORTEX/GREMLIN

the toe building on push left or right to swind the minor one way or the offus in colition, different access have like-opticables - aim a boom into one end and if comes out of the other still going in its one and direction — plus automatically notating minos and vincus other devices which you can use to vicin ordinarios.

Seles you can construct the bottom poth youth have to claim the scene to thise. Those little divides horse born left lying amount by indices and you only get clear cones to the target once yeavive supped them call by didetenting the loses so or to hit them the tracity work the cliens also less the most lying amount, and playing the laste on one of these for too long will blow you to pieces, contang you one of your three lives.

Bents aren't the only houseds Many of the screens have walls of absorbing brick and these arm prove damperous while you can glance the boom of them if you hid of a shallow enough angle they? I overload and destroy your losse if you tourse the beau having on them at might angles Smillathy if Spectrum Version
Coded by Costa timed and it shows bright colours
and churky shapes earn the one a big thumbe up
on graphics

GRAPHICS 7 IQ FACTOR 8
AUDIO 4 FUN FACTOR 7
ACE RAYING 906



Is if a bird? Pringer day, the filliant burbane within. Case pro segment of the property of t

soch mission the player can deade exactly what amaziments he should carry. Despite the vest communit of defail provided in the slight manual and technical supplement the carcalt is very easy to fly. This is probably due more to Microprise warning to involve the player in the action side of things nation than accurately re-create the flight controls.

Once you've familiar with the controls and the game; you can start to warry about promotion Successfully completing a mission can have the player advancing through the inmits toward Begoder General or indeed could issuit in the player receiving one of four decorations. Transituting a raver option is uncluded so you can by whenever you're the

Project Steatth Fighter is certainly an enjoyable game, there are enough technical details to keep the player involved and certainly enough different and varied mexicons to keep the player favorer.

Andy Smith



you become the beam back down into the last projector you'll soon get an averload. In stitut case or if you take soo long and run

out of power for the laser you lose a life.

It all these ways of dying sound easily avoidable to you you're recknowing without the game's most maddening feature - aliens!

These interleaning little memories don't take fundly to people anypung their blobs, so they'd scumble your notely arconged memors whenever they' get the chance. You can knock them out for a while if you catch them messing with a mirror – just put the curso over them ond press the – but they can do

for you a sight more permanently by setting up an overload or pointing the beam at a bomb if your austor's over the other side of the scene it's a mod dash trying to save the stretching beas, and times still before reserve.

the screen its a mad dash trying to save the struction here and times still belong away. The gameplay has a number of slightly unusual touches to it, the main one benor the

C64 Version – a taster

The near-finished version we saw was great to look at and keten to that the Gretnin conversion ream stopped up rather on the cursor if gets in the way of the selected metror so you can't really see what you're doing when you remail a strough.

splann of lives you tent with three of them to each screen, no mother what Sampe through a screen hy the sam of your tenth to mad your tenth part of and of your tenth part of and of the first for the later one—but come through tententhed and your boundail to that mot larger. This trackes it easy to get through the security through the second your boundail on the through the security that the second you've committy stated on, but doesn't provide too much of an amenity to get each tool too.

Foscinoting stuff that keeps your heart firmly in your mouth. Defectors got 60 convens of hearth-boursing problems. With some of these being a touch on the easy sate that many not give if the longest life imagnitude. But it is addictive stuff Vortex fams, you have not worsted in your.

Andy Wilton



720°

Get on board and go with US GOLD



SKATE City is where the action takes tion based on the coin-op of the same name You and your board must go places do things and generally accumulate points and what do points make? Prized Correct but don't expect an all-expenses-paid-trip-to-Disneyland The only prize you'll get is a tickel to the skuts park where you can strut your stuff and collect more points

Before rolling in to Skate City you must decade upon your skill level. Whether you opt for tramee or old back there's still plenty to avoid So remember be careful out there

The city - on American city (where else would you see body builders unicyclists and break-dancers on the same street?) - consists RELEASE BOX

wheeles - the more explic your trick the nicher vous reward. Hidden locations also clock up welcome points Certain freebies. such as dollar bills, add to the bank balance At the start of the game you have three

SpectrumVersion

of four parks four shape streets and inhabi-

tants. The idea is that you roam the streets

collecting points and money Points are

While eketeboarding can be a lot fun once you've get the hand of the controls 720's graphics slightly take the potah of the game - they is a lit lie on the redistrict ride. The keller bees in par-Toular swarm so closely that they might just as well be called a biler blob. The sound loo in nothing to write home about

GRAPHICS AUDIO		IQ FACTOR		
ACE RATING 721				

£ 9 99cs, £11 99dk Park performer

£9 99cs E11 99dk DEC 87

2099 83 AMS

CLIT NOW

DEC 87

Downhill - stick to the stope and you're okay

The easiest of the bunch Jump - can be tricky if you don't remember

Ramp - simple just keep moving. When you get to the top change direction. Jumping can Stelom - sharp directional changes are need ed to keep you going through the flags

PREDICTED INTEREST CURVE

un - and it's partninty safer than the real thing - but it

tickets which give you access to the parks Enter a park and you lose a taket but get the chance of performing (see box) and painand a medal - Gold Silver or Bronze Do well and you get a decent medal, and plenty of points And as the points arrive so do the tickets firmuble a you need a lot of counts to

Money enables you to buy protective equipment from the shops helmets shoes pads skateboards You may wonder why you need this dear well, remember you re on American turl it you look good and have the goods then you re bound to perform well

NICK Phipps is not a name that springs immediately to mind when you're asked to think of a top class sportsman. He is however currently rated as Britain's top Bab-

RELEASE BOX C54-128 SPEC AMS

Simply learning the controls and win ning the odd rape is not enough in this come The player has to compete and do



C84:128

SPEC

You comy get the impression that these is a bit the to 200 line to these one plenty of obstacles to lander you. In cut these one plenty of obstacles to lander you. It was a many of the present of table these, cyclists motocopy-thy presents of table these, cyclists motocopy-thy section of table these, or the present the present of the posts of the posts in the present you'll plump other and if you get cockry you'll plump other most if you get cockry you'll plump only you for the present you for the present you have been financially and required you for the present you have been financially only the study in the entire you cannot be present the pre

stip mensy measure for the teams upkeep. Constang or biobalegin come be destribus net only for your channess of a place in the warring sop three but can hart your wallet as well reposts cost money but lost sponsorings com have you testering on the brink of benkingtoy— and becoming bankrupt

Before you start into senaus competition you can practice each run in whatever order you desire which is helpful in familiarising the player with popularin corners etc. You



BOBSLEICACE

Ice screaming with

DIGITAL INTEGRATION

can then compete against other reams for just the one run which helps to give you an idea of how well you compare to them

Getting to graps with the runs is on systell expect lough. If blooks it seen system of sharpreport for the blooks is seen system or electrican to reach the connect and find the point of lead resistance which you need to infilled if youise to achieve emything like the special needed in earny squared or plante on the leaders board. Make size you consult the work of the special period of the solid of a conselecting the wing numers for the body con-

Options to increase your feam's fitness are included and the idea is to waggle your loystick (or use the keys) as tast as possible combined with having to waggle the joyetick at the start of each roce (striutates your team running with the bobshigh to the start lane) this can have you (eeting physically fixed at the end of a season

Bobsleigh is a thrilling game with enough strategy involved to odd another dimension to a highly competent and addictive simulation.

• Andy Smith

Spectrum Version

rais and remote you get a real series on specified on the Specifician All the action is well annual and controlling your bobilety's properly takes fee bit of practice. Sound is used well and act to the impression that is just you feel you learnly vestes the hard unjesting to as you the de down the run. Groping had bring stell that is that for piey.

GRAPHICS 8 IQ FACTOR AUDIO 8 FUN FACTOR ACE RATING 901





designed and drawn and the music and pitter of effects are superb. A gharme their that the ne start is not all one of you get no real feating control over the bobsleigh - if seems more a not set back sold watch the action. All the other set is not all the past not so much tun on CS4 as it is on the Spectrum.

GRAPHICS 5 IQ FACTOR
AUDIO 6 FUN FACTOR
ACE RATING 567





PASSENGERS ON THE WIND

INFOGRAMES blow in from Africa

DAHOMEY was rather a rough place in the late 18th Century mes entents. The little West African kingdom. had enough homegrown dangers for most people, what with lions on the prowl and a very short-tempered autocrat on the theone but when your companions included posoners lunatics and slavers - well, you really

Yes folks we've back with Isa and Mary the central characters of Passengers on the

RELEASE BOX		
C64/428	£12 95cs, £14 95dk	REVIEWED
ATARI ST	£19 95dk	REVIEWED
AMS	£12.95cs £14.95dk	REVIEWED
IBM PÇ	£24 95dk	IMMINENT
AMIGA	£29 95dk	IMMINENT

the original game related a tale of mingue and high adventure at sea with a attachia style that amazed British players and a come structure that left them baffed Passengers 5 takes up the story, and the strange comeniay style, in Africa The first scene opens with one of the name's many beautiful screens depicting

Wind Browd on a classic French comic strip

the Dahamey vilidae where King Koenoo holds an audience for Esa and her compantons it's then your job to try and help the stery untold. For the most part you control the plot by selecting one of the game's numerous characters in a small window below the main picture and clicking on them with the pointer to make them speak There's only occasionally any choice over what they say - it's mostly tust a matter of plecing different people's speech together As well as assembling dialogues in this

way you can affect the pict directly by click-

Atarl ST Version

The gameplay is affectively the same on all merhines, but for policy, and questic resolution the is the best of the burish furth the Amga version turns up at easy rate) - and year sice it looks too

10 IQ FACTOR 5 FUN FACTOR **ACE RATING 678**

CPC Version

The CPC cent match the ST for prepires of course but it comes pleasantly plose here thanks to careful use of roker. The tace version's multilized panisel a little tedicus, and the lack of a mouse makes control a little nicross

ACE RATING 665

9 IO FACTOR 7 FUN FACTOR

C64 Version

Graphicely the poorest of the versions (though still a good-looking game) and siep of ocurse. The

GRAPHICS IN FACTOR FUN FACTOR ACE RATING 659

ing on different parts of the moto picture, setting action sequences in motion. You're never really controlling the proceedings in all trus - just revealing a fixed story line. The actions are shown as pane's overlaying the main picture rather than as conventional onimation. There's resely any indication of where these sequences are possible, so you'll probably end up chicking 'dead background' on owful lot of the time just on the off

Somewhere between a story and a tigsaw puzzle (and a long way from anything you'd normally call a game) Passengers II is very much the comic strip equivalent of Cinemorecone it's easily the equal of (say) Defender of the Crown visually but Careznaware's gameplay shortcomings are also in evidence - with a largish dose of confusion thrown in The trial and error involved delects what challenge it might have had as a game, but Passengers II has an undentable (if short-lived) fascination.

Andy Wilton









corget about games, Learn about events. Events are about competition. The Pool Joust, Downhill Race, Freestyle Ramp, High Jump and the Downhill Jam. Play alone, with a friend or pit your skills against Lester. Skate or die - it may be fun but its serious.

SMOKIN' THE HALF PIPE

Roar down the temp and fly up the other side. Live on the usige where you go for rock in rolls fland plants (shown here) leg plants revisives; even methods. Gel advante for 720's, offers front & backside equals



SKATE & DESTROY

Karats chip your way down the baddest elley in the resphippingold Smesh up trush cares bottles fances, and the other guy Rad skaters



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7

BRAVE new grame formats are rare things these days, and difficult to come up with too That must make crotrammer John Phillips a pretty hot property after the unusual true 3D and sideways motion of Impossaball, he's test delivered this

strikingly unusual rotory masterpiece The boxics of the game are simple stuff indeed eight cylindrical towers project from the acean, and you have to destroy them. To do this you must guide your little character ledges the game keeps him in full view by rotating the lower behind him platforms and all This 'intary scroll' is diazzingly original stuff even on small movements, but Nebulus can do better if Pogo steps into a tunnel, the tower spins through 180 degrees to show him popping out the other side

Graphic ingenuity isn't enough by itself of course but you'll find that the aameplay too is solid stuff. Though based on conventional timing and jumping problems, Nebuted for each tower but a few falls soon eat this up and running out will cost you a life

With practice you can get past (or shoot) the towers' nastes fairly reliably - though the timing can be very demanding in places especially on the Spectrum version but that still leaves you with authorne badguys to deal with These flying nostes turn simple problems into death-traps if they appear at the wrong moment. Waiting on lifts or dodging into tunnels can save your bacon here, but you'll need to plan ahead a

Nebulus strikes a fine balance between trustration and addiction and should keep you occupied for months even with only eight towers to clamb. Add in the floar and originality of that solary scroll and you've got a good-looking, playable winner of a game

Andy Wilton



Page to the top of each tower, causing it to telescope down into the sear. A spiral of platforms ledges and lifts form your route up the outside of the tower wall, along with several tunnels directly through the tower's ones it's

no picnic gaps between (and disappearing blocks in the middle of) ledges have to be jumped, and nasties in your poth need shooting or dodging

RELEASE BOX

These immediate problems will have to want for the first few pames because the chances are you'll just be staring at the screen in wonder. As soon as Poac starts to mave you'll be struck by the startingly add way Nebulus handles his movement around or through the tower As he walks along As has subtle twists to it that make for real addiction. For one thing most pasties don't kill you outright they merely knock you off your ledge, lift or whalever. If you've still four-Iv low down the tower (or just unjucky) you'll fall into the water

and drown, losing one of your three Types

Once you've dimbed to a decent beight the worst you

have to fear is a tumble onto a lower platform forcing you to cover the same ground again - but this is guite bad enough You scale each tower against a time limit, so the delay involved in alimbing back up can cost you dear as well as drive you wild with trustration. There's a certain amount of slack in the time allot-

C64 Version

Bright understand fast-stowing the CSA Medical is a ply to barro aslicate on the calls. The make garre's good except not to reled it.

GRAPHICS 9 IS FACTOR 7 FUN FACTOR ACE RATING 943

Spectrum Version Though it streetly cert match the CS4 version for colour or sound the Spectrum Nebular is very nearly as test and every bit as sablications. No fish to coalch between levels, loci if is still a cracker of

GRAPHICS # 10 FACTOR AUDIO 4 FUN FACTOR ACE PATING 917







SKATE OR DIE

Ollies and plants with ELECTRONIC ARTS

PACK your pads board and wheel grease and head on down to Rodney's skate shop There you'll meet the coolest has-been in town + Rodney of course He sure knows how to handle his board. Can you say as much? If not you'd better head for your local rag store and purchose Psycho Skoteboords Daliv. otherwise you'll end up as another pretty pattern on a board Enter the mean city skate or die-

ng in 1B00 they

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VB (00)

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Witten

If you intend leaving your mark on the city then sign in at Rod's shack. There's room for you and seven other competitors. Then it's wither or practice roll round town or a brad-to-head in five gruelling events. You rerates to stick to practise made after all yould look a npe prune if you hit the streets with a



RELEASE BOX

sink bossed and no hope of changing your mage until five events later Leave Roddy's parlour and cruse around six spray pranted streets skate down

the one with the event of your choice strawled over it. The fun starts The first event - if you choose to compete

in all five - is the Freestyle Romp (a hundred feet of wood and steel moulded into a wide U-shape) Jump on your boord and strut your stuff, oilies, Rockn Rollets and lacktums if you re hip (and if you con't dauge out what they are look at the

Sinter Speak box) But if you're rectily cool you'll also manage an open eye for the Bet tes Try to be too flash and you will crash though the sump - not a pretty soft

Next on the list is the High Jump anothor U-shape ramp Only this time you've out to waggle fast and hard to get you and your board tens of feet in the oir A mean tournoment especially if you turno at the wrong

Nothing is out to stop you in the fired contest It's just a casual jount in the Downhill Roce, a race against time On the way to the firsh line you can no on, over, through and along objects Stay on

your board and gain a shower of points Its you against an opponent in an hilarious mad dash to the finish line in the Downhill

John Anything goes ride over flower pols. smosh bottles and tip over trash cans. While doing this you must try and unbalance the other porty by booting him in the head. stomach or other painful regions of the body But also take care you don't stam into buildings or thunder through senges (you'll and un quartered if you do?

The last event. Pool Joust - in which two players enter, but only one comes out alive is simple one person moves rapidly round the rink trying to dodge the other stick-brondishing thug If the first player manages to get from one side of the ring to the other sour times without being hit then the stick is his This cames on until someone gets splattered. Skate or Die is highly enterlaining and exquintely detailed, and the characters look in great pain when you do something wrong By for the best in the recent skoteboard game grove

Richard Mozrezo

C64 Version

GRAPHICS P IN FACTOR AUDIO 7 FUN FACTOR ACE RATING 878



Skater Speak

varied The graphics and animation are

TO WIN

PLAY

we've **got**?

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ast moving ...all out arreade action for ... one or two players ... and award the partie of the Battletrusk headon ... and welcesh your Mean Streak!! ... C64, Spectrum .





ZIOXAO

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C64. **

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Wernel districtly reminiscent of Raymond Chandler Deja Vu at his no other odventure you've ever experienced .ST C64



BALANCE OF POWER



authors of His Pations

awything on the morkel of
the moment Personal Computer
World. Amiga now, PC ST 664
soon



KING OF CHICAGO

it you wits...agonal the legendary Capene meb .in a deadly battle...for the control of the Windy City ... Amige now... PC, ST C64 soon...

ne of those games any senous games player .connot be without ... Popular Computing Weekly. PC, ST, Ansige ...



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DFC, VC, CPC, Ahurd XI. and ST, ... C64, BBC/Electron, Spectrum, MSx, Meny Imagerey ST various ... combot soon

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STATE OF ACTION

RAMMING a spaceship into objects in order to change its direction sn't generally considered a good idea However, in this latest from Tony

Crawther it's positively essential to go bounding off things like a flea in a pinball machine

The 'awesame Mattix of Zog is where oil the bone-jaming callisions take place as you search for the eight crystals of Zog hadden in the 1 400 acreens. At its

come is - rust a mother of exploring and on lecting What makes it interesting is the wend way you get around and the many stronge features encountered on the way

You can fly left and night in a comidar and after height as well, but you can't turn cround or turn a corner without some casestrance. Transcular blocks are placed at many tunctions and by ram-

ming them you can ofter the direction of the ship through 90 or 150 degrees depend. ing on whether you hit the angled or flat port of the block Romming walls will also turn you cround Norther action couses any damage to the ship

The comdons one populated by several breeds of nostly oliens. Homers home in an you, while attractors draw you towards them instead There are also bouncers, distiers,

C64 Version

GRAPHICS 7 IR FACTOR 6 FUN FACTOR ACE RATING 783

RELEASE BOX

ZIGZAG

Ducking and diving with MIRRORSOFT

The matrix is viewed from a Zassian type perspective, scrolling diagonally to keep the ghip centred on the screen. The matrix is entirely composed at conidon connected by right-engled turnings. In places the corridors normal and have comes forcing the ship upwards

curliscrews and cubes to look out for Most of these guys can be deadly if tammed or if they hit you with their missles. If you do do then you've returned to the storting position

Shooting the obers some money which con then be spent if you find a shop zone They so found at the end of cul-de-sacs and

the most expensive. Other powers are sapps maps missies sheld raises infra-red and x-The maps show the zone yours in, after red and x may respectively embance vision

and allow you to see through walls. All the powers are useful to one extent or another but are lost if you die Other features which add to the puzile

when you fiv into them it presents a menu of

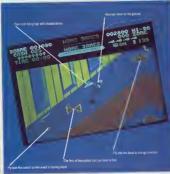
additional features for the ship. Each feature

costs a varying amount of money from U

turns at the cheapest level to extra lives at

nature of the game are switches that areas or semove walls and blocks when flown over or shot Additional restart points can also be found to prevent you having to fly all the way back from the start

At first the concept is very intriguing porticularly as the leatures and their uses are discovered But if quickly becomes a motion of exploration and supping rather than on of puzzing it's certainly a massive task to find all eight crystals and it's going to be a monster to map, but it may not hold enough purposes in the long run. RAN WIS





THROUGH THE TRAP DOOR

Cartoon capers from PIRANHA

BERK and Drutt the two cartoon cuddles, are back with a vengeonce. The Dopotour hard you controlling the wonderfully assembled Bork in the dangy corridors of the Bord Tempered Thing's costle. The sequel

RELEASE BOX		
C64/128	28 95cs, £13 95dk	DEC 87
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not only lots you manhandle larger-than-life Berk but also his bouncing buddy Druff The adventure starts when hapless Born (the situally grets placked from his abode, and subsequently taken to an underworld by a headless but Both Berk and Druff must have! through four underground regions to recover

You have 16 lives with which to hunt for Bons It sounds like a lot, but there

are many hazards and you lose a life roughly every 90 seconds Berk the large blue thingum/watsit is the main character Drutt just bounces around satisfying his craving for worms and accessorally, with great trepidation pets

The four regions are traught with dancers and puzzles. There are pits scades bots, and other menaces to dodge. The task usually involves locating a key and taking it to the nearest door - it is in this manner that you pass to the next stone

As with the original the

SpectrumVersion

toon-like characters on the Spectrum. Sound is little really deliract from the fun or the engreably India

8 IQ FACTOR FUN FACTOR **ACE RATING 824**

graphics are bold and superbly animated Berk's factal expressions have to be seen to be believed. And Drutt who insists on gobbling every passing worm, is cute in his own special way. The tasks are harder than the original, but could still do with a little tweak ing A game worth getting if only to watch the big bumbling characters

Richard Montero



Bank and Drust look on so the beadless but below Bool off to the lower regions

WEREWOLVES OF LONDON

Fancy a bite of VIZ DESIGN's latest?

WEREWOLVES features sound effects which include that cutchy song of the same name by Warren

It's presented on the 'no instructions -Erron - and it will be this rather than any work it out for yourself format but bastoally



other aspect of the program which might

you must explore Landon collecting potentially useful objects which will enable fou to open manhole covers or shirte a light as you room the sewers. By night you transform into a wecewalf and attempt to keep your levels up by attacking people

As far as gameplay goes there's an all look exactly the same The objects need to work out what they are - a swiss rail electric toothbrush? - as the groupics are certainly not all they should be

Christina Erskine

RELEASE BOX

MS.	£9 99cs £14 99dk	DUT NOW
PEC	28 99cs	DEC 87
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Amstrad Version Despite the rice touches —eating Steanet can be good full - Wetewolves sust doesn't have the depth

IQ FACTOR 7 FUN FACTOR 5 ACE PATING 573

is the interest to make the grade

PREDICTED INTEREST CURVE



MADBALLS

Battling balls bounce in from OCEAN

MERGER, compronuse electrons and doing a tresomely good job of getting in the way and generally fouling things up for you

then you're going to have to get out there attertinised pictionss, surrounded by a sea of and bash a lew balls coound to get if After all youre a Madball

and that's what you do C54/128 As in all political struggles there's more than one candidate for

the post of leader There are seven other Madballs doing an

excellent impression of the SDP loadership struggle as well as a pack of Beautocratis

Madt	oall	Ro	il t	Call
There are eight o			for	leader of (m)
These are their co	edem			
	A	8.		Food
Fresty Fullback		8	6	Coke and
				meions
Swine Sucker	2		8	Acything
Nobulus		ô		Fish reads
	- 4		5	Blood
it Face	5	4	2	Bones
Horn Head	6	6		Cabbages
				and Irus
Sk 1 Face				Cabbages
Screamin	8			Coke
Меетия				

The surface of Orb is a brown complex of

crev conformity The RELEASE BOX scrolling view is from overhead so the REVIEWED balls get larger and

> bounce up and down The Madball sportes are recognisable mainly by their colours, but the focal tectures oven I quite distinctive enough to dif-

smaller as they

ferentiate them. Initially you are in control of Dust Brain. a mid-range Madball in terms of speed and strength The other seven MBs (Member of Bull-iment) have equally flattering names

like Swine Sucker Slobulus and Freeky Pull back. They have different speed and strength ratings which other their monouverability and pedamonos in combat A spanning pole (opinion poli?) Indicates a ball's energy level which is supplemented

by bouncing on items of garbage that pass tor food on Orb. Running out of energy won't toll the ball but it does make him more vul-To explain another ball you simply have

to bump him off the platform and into the grey area - the goal. You can do the same to the becarecasts for points. Once a modball is coptived you can switch cantrol to it

at open dustbins. It will also come into play if you get bounced into the good oching as an extra life

There are several areas in the game and only one boil will be found in each. The careas are connected by yawning holes which you can bounce down, exiting into the next area via a dustbin

To bring some variety to this tough polib cal lobbying there are many features that critect the bail Trampolines sannaboards tyres and octopults can all give you extra bounce to clear agos but using them dree tionally is often difficult Ramps, pyramick dusthers and oil slicks can send you sounding att course and into danger

One cute and totally inexplicable feature is the tord earns, which when bounced on release chickens who can be squashed for bonus points Bubbles come in for similar treatment with the same bonus points result. However whatever you do, don't bounce an the mousetraps or your political career will defiate faster than Ceal Parkinson's

The gameplay is obsolutely manac as you find yourself fighting the loystick the whole time trying to stay in play or bounce on opponent out. This makes it addictive and infuriating, a deadly combination because you keep having one more go and get man trustrated every time you die Samething has to give eventually - the joystick, the game your mind

The main drawback is the element of trustration at dying and having to repeat commests at the other balls. It's not a serious problem but along with the draip graphics if takes the edge off the game I conclude that there is only one difference between Both and Orb politics - one has party political broadcasts that pull you to sleep the other will give you many sleepless nights

Bob Wade

C64 Version

GRAPHICS IQ FACTOR FUN FACTOR **ACE RATING 826**



AIRBORNE RANGER

Hit the silk MICROPROSE style

C64 Version

ar d

and

the perceptay is lough to get to grips with but does become easier with practice. The states to seve possons and character qualities means you can volunteer to fight a campaign and hope to get your disr actor promoted to Colonel You'll find yourself in some pretty tight spots which require a quick trooper linger, while at other tense you'll need to think on your feet and work out your plans very prequely

8 IN FACTOR **FUN FACTOR** ACE RATING 801



HAVE you ever fanced yourself as an enemy lines for the USA? If so then now's

Microprose will fly you into enemy temtory where you can parachute behind enemy lines and attempt to complete a number of hazardous missions varying from conturing enemy officers to cultura enemy oras suprobes

The general idea is to 5y over enemy for many drop supply pads that you may need during the operation then when the light turns green launch yourself from the assorati and guide your parachule to the ground This part of the pame is viewed directly from above and only lasts a few minutes, but once you touchdown the view changes to show your ranger in the middle of a screen

RELEASE BOX		
C64'128	£14 95cs £19 95k	OUT NOW
SPEC	UNDECIDED	FEB 88
AMS	UNDECIDED	FEB 88
ATARI ST	UNDECIDED	FEB 88

Action Moni



ments is not everyone a idea of har. Good job ITS unit a simulation.

which scrolls around him as he runs walks and crowls on his mission

From here on in its up to the player to complete the mission and make his way to the pick-up point to be rescued. Of course the enemy have been alerted and will be buntand you down, so quack reactions one needed in order to survive Controlling the character involves moving him in one of eacht directions while he can fire in any one of 32 directions with a choice of weapons. Replenishmants are available - if you can ever reach the supply pads

Airborne Ranger is not one of those instantiv piavable Commando-style jobs but a game which takes a while before the fun begins to shine through When you do get the hang of it it can become a gripping and demanding task.

Andy Smrh

INFOGRAMES dodge the black holes

NAVIGATING the space lanes and shooting the accessional gun turnet may sound like boning stuff especially where the lanes in question are flot or tubular lattices of ablong tiles But when large holes and other lethal obstacles are the rule rather than the exception - and you can't slow down to avoid them - bore-

Frustration on the other band pertainly will be The only way to stay alive in the oome is by dodging from one row of rectanales to another as the whole lathan zooms lowards you. The vectors here are slick and the feel of movement is mostly convencing out the stact pilot's eye view - your ship isn't visible on the screen - occuses a few problems judging where your ship actually is Teiling which row you're on is easy - the

lattice rotates or moves sickeways under you as you push left or right on the stick so as tokeep you central - but telling how for you've got along the tile vouce on is another matter Swing left or right before there's a tile along ade you and you're dead. Run off the end of a tile into blank space because you wasted too long and again you're dead. The timing isn't actually too bight but you've got an awful tot of steering to do and you're back to the start of the level every time you die Since you've only got three lives anyway this

There are other hazards axide from blank space purple tiles and lashing tiles kill you outright, as do gun turnels if you ram them. light blue tiles and shots from gun turrets but of cantral for a few precious seconds. It's not enough to dodge these though - vos/ve also get to positively seek out the compe tiles

Later features add complications - black



while solve for them

holes are particularly nasty - but the overall game remains simple addictive fun

Andy Willon

DELEASE BOX

Atari ST Version

ATARI ST £19 95dk

Nice vector graphes it not exactly smooth. The flashing squares are almost impossible to make out but that's right in keeping with such an imitatingly

IQ FACTOR 7 FUN FACTOR **ACE RATING 887**





DRILLER

Solid exploration from INCENTIVE

GAS build up one no loughing mother here they be traceduring to blow up one of your home planets moons or only note. The debts from the explainers moons or would make tother or hole in everybody's storage to the prevent that his bond by setting up deling you will be the property of the get up the deline growent that his bond by setting up deling you will set the the bond by setting up deling you will be the the think the grow position could be the set of the grow position could be the set of the your bear of t

The playing once tent the actual larver surface - that's far too bestel on environment even for your bearvily compared exercision probe - but rather it's an artificial shurture built around and afforced encounty the moon fixed. This structure consists of 18 square sections pained of the edges but there are still holes you can fall through so you'll have to waith your step.

As you explore the buildings and objects to be found in each section your driver's eye view of them is in true perspective 3D with solid colour or texture-filling used on all surfaces Especially where textures are used its

not obvolve entrely close what distant or small objects actually one. The solutions simple here just transfer up to them and take a look? Tany dots become cubes or pyramids on closer inspection, and seemingly connected buildings turn out to have comove —but navigable — alleyways in between.

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Ametrial "tourn in the jet now looking back at the accepation proce

Often switches don't directly create the leading you want some work in groups so you'll have to set all the switches correctly before anything useful happens, while others smply reveal further switches that were previously invesible. There are no general princinies here—use shoot and observe.

As you might offeredly planty quested you creat the cell you can who gets to do some shooting. The inscens chandrand security systems as till a weaking order and its status later hared cars subject you to without plant cared you may hook them out or of lices! import them before they drawn your shade and destiny yet but some harest one conlum-prace! You may have to securit for carother south ghough lesse, or emply grill and the control of the con-

Tunets aren't the only hozard of that An orbiting killer satelliste will fire down on you of a gets the chance while mentitetts and orad rivers make some toutes decidedly dangerous Large drops are wheely your probe even if they don't plunge you onto the moon





CS4. Note Notated version but these graphics should give you on like of what to expect

below so simple trenches con't be taken highfly either

te libro

\$55 SO

pactly

others

e pre

DEDCE

Kroe

Ciniv

g for

back

you ri acid

Once you've explored the moon, with the help of the energy and shield crystals around the place you still have to address the central problem of venting the gas Pasboning dulling ngs is child's play - just teleport them in from your home planet at the press of a key - but you have to know where the gas packets are. The landscape contains all the information you need but much of it is in cryptic form - symbols on the ground. messages on walls etc - so you'll need to

Amstrod Version Hard to ballevs you're only looking as a CPC display

what with the realism this one works out of it in places. It may take its time updating the acrean but t's worth the was

IQ FACTO FUN FACTOR ACE RATING 956

The realism of the Duller playing area less not just in the solid 3D graphics used to depict it but also in the very adventure-like way you can think things up, do them and find they work. There's so much to do beyond the normal of you find the switch to get the work out how to trip it? It you find a spatter plane to fly around in, can you keep if airberns?

Fitting Daller into a pigeonhole is tricky There are arouse adventure and logical

Spectrum Version I may only be in more but the textures used in the

display are still very affective and the screen redraws at a healthy speed making the game that much more

GRAPHICS # IQ FACTOR 3 FUN FACTOR ACE RATING 931







A wall detended building - that white pyramid to a que turnst covering the antrance and shorting if won't get you snywbare 7 Lat's head round the back. Navbe there is a ner way in... ... or maybe those power lines have get semetring to 45 with it.

puzzing elements to the gameplay while

the slow-but-impressive graphics hand some where between Starstnike II and The Sentine! Its bold dazzlingly enginal and very playable too, and it deserves to feature prominently in the Yulebde charts

Andy Wilton



The Ametric's colours: give it more instant appeal, but ooth versions will enthrall you once you stort to es the same a bit.

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SCREEN SHOT FROM ARCADE VERSION

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Coming early 1988 HALLS OF KYROS (SEGA), ROLLING UNDER (NAMCO) ROADBLASTERS (ATARI GAMES

BUGGY BOX

Are ELITE buggin' you?

FORGET the Fenant - Buggy Boy puls of an off road, rape-tuned Base Businey

The game is viewed from a position behind and slightly above the buggy. The gum is to complete one of tive courses by completing the various legs that make them up The roadway scrolls towards the player continually twisting and turning so that the player has to move the joystick to avoid the various obstacles Of course you're racing against the clock on each leg - much like Out Run - and failure to reach the check



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point means it's tune Besides the almost oblig player has to right to avoid a plethoro of road-side and on-road obstacles including

Buggy Boy - what's

So you thought Out Run was the definitive car racing game and anything that bears even a poor substitute 7 See Buggy Boy and then decide. Sure the idea of completing several stages within a time limit appears in both games but that's where the similarity ands Buggy Boy is far more concerned with picking your course and avoiding the obstacles then merely completing a course. In Cut Run, you had cars to avoid, but Budgy Boy has the player risking far more in an elternot to drive through bonus gates, this can prove to be Iricky until you get to know the course and will have the player running into an immovable object on more than one occasion simply because his greed for points has overridden

The inclusion of pn-road obstacles is also a cause for concern. Hit is log and the buggy goes fiving through the air - great fun to watch but should it happen on a corner then you could be in for a lot of trouble, because you can't steer a car that's in mid-air Buggy Boy is different enough to ment a high level of interest from even the most ardent Gut Ruo.

trees, brick walls, fences and the occasion at other buccov. Hitting on obstacle will have your buggy leaping into the air and coming down with a thud - you then have to pull away from a standstill and try to get your speed back up again before you lose too many valuable stoonds. As well as crashing, the player can also witness his buarry flying through the air whenever he hits a bump and going up onto two wheels whenever he has a molehill or a tree stump - this two wheel business is actually must helpful for stewing to through tight gaps

Almost as an attenthought, the player can attempt to increase his score by driving

C64 Version Although the scrolling as a bit poor the graphics are very colourful and well brawn. Sound is great - throb-

memorsing the courses can help. It's certainly metant ly playable and very addictive, with the variety of

7 IN FACTOR # FUN FACTOR ACE RATING 906

PSST! Wanna see the world? Go to all the best airports? Get about on all the best railways? Give yourself a chance of piciana up at least £5 0007 And play a jally enterlaining quiz game at the same time?

Then look - as they say - no further. The Travel Game will be right up your street. The Endoame Puzzie', get this right and you stand a chance of winning that prize - \$5K plus £1 per copy of the program sold. However you only stand a chance of getting the pages of the endoame puzzle by travelling the world to the right picces

And, of course you can only go places earn the money you need by answering questions, which is where the quiz element comes in Describing the first sleps in the game is probably the best way of giving an xiea of what goes on.

Oh Boy! ordy' rabber, that orlopping time limit will mass you've gotte loop the pedal to the moisi all the w

RELEASE BOX

You begin in Landon with a clue to the first destination you must reach, a musical clue. When you've figured out that this place is Dublin you then have to get there You have to go to a travel opents buy a ticket and get to the airport (in time)

When you reach Dublin for anywhere also come to that you should go to a shop and buy a souvenir if yours lucky you'll be really - will cave you a part of the endoams

to start trying to accumulate more cash.

the buggy through various gates and over a number of flags. Also included are time gates that give you a two second banus for the second leg

Buggy Boy is non-stop action that is fun to play and it's difficult enough to keep ethe best drivers engrossed for guite

PREDICTED INTEREST CURVE lax. Once yes/us hours the different storages you par



THE TRAVEL GAME

Peripatetic perplexity by RULEFORMAT

puzzle Entering Display destination will give you a due to the next stop you must make The destination clues are denerally none too. difficult to work out what can be tricky is from A to B (very often via D. Q or even X) are a large part of the tun and the trustration

The other part of the fun comes from You go to a shop and buy a question for anycon bring you large amounts of pash. Getthat it wrong means you lose your stake There's a wide variety of questions ranging from loggod/mathematical puzzles through word squares and recognising quotations The charges ones can be taken easy the

You need to accumulate money in order to travel - tickets from Paris to the Middle East don't come cheap But, you may well be cosh? Bog It's demeaning to wonder round Paddington station trying to take the cash to buy a cheap question, but it's the only way and it does work, eventually you get enough

There are numerous pitfalls in The Tranyou can get stuck to traffic lams - so mission trains ands loang valuable time and forcing you to stay in overnight hotels in certain locations you will bitterly regret corrying your stock in cosh rother than travellers chaques, it's not pleasant to be musiced and

left penniless on the streets of an alien city The overall object of the name of course of Winning the \$5,000 But on the way you can have plenty of tun playing the guiz elements and just getting around. The Travel

IBM PC Version

want there are none. The Travel Game is all about voyaging his and puzzlesome questions. The user Interface could have been a life thendler, but once

0 IQ FACTOR FUN FACTOR ACE PATING 838

Game can become endessing and exciting whether played on your own or as part of a syndicate Remember, though, that only one prize entry per disk can be submitted

Pete Connor

PREDICTED INTEREST CURVE

Will really keep you handed until you solve it – or old

C64/129 69 99cs, £11 99ds

SPEC £8.99cs

AMS

BRAVESTARR

GO! west young man

FRONTIER planets like New Texas attract some printly lowlife types, so local lawmon Marshol Bravestan (that's you) has his work out out for him. That goes double right how with the wise old Shaman held pasoner by evil Tex Hex and his going it's curtoins for the Lone Star planet

RELEASE BOX

£9 99s, £14 99ds

if you can't rescue Sharmon, so you'd better get anto Hex's trail muy pronto You can run up and down the towns scrolling, side view main street tighting off

baid guys with your trusty six-shooter or drop into any of the town's named locations the

(ci), bar or bank for assamor - in search of

information. Once you're inside a menu sys-

tem lets you examine the place or talk to

anyone there. The bar's your best bet for talo. but you'll need money there - and for that you'll have to heari out of town

Climbing aboard your flying saddle you our select your destination from the onscreen map and take to the sizes. At first there's only one cut-of-town location, but as you talk to

Marshald's in a ghost own, searching for the ites gung dista him

people and gather class the map starts to till in You'll have to blost your way through the fumbleweeds and other amorne nastes that swarm at you, and when you arrive it's another round of talk-and-examine

Those's an overall time limit to the pame and the clock can run down quite quickly if you keep taking senous hits Tokens left behind by dead nastes can increase your rate of two or even stop the clock briefly but avoiding the bad guys is far too difficult Acavestan's a valiant effort at something

Andy Wilton

SpectrumVersion Nice use of colour and not too much attribute clash arther. But the gameplay's frustrating staff.

7 IN FACTOR 4 FUN FACTOR ACE RATING 775

REDICTED INTEREST CURVE



R.I.S.K.

Scroll and shoot to THE EDGE

CUT NOW

DEC 87

RAPID Intercept Seek and Kill - just in case you were wondering what the initials stood for Jump in your skimmer

RELEASE BOX CS4.128 28 95cs £12 95dk



Christian 3 in an attempt to save your Space aben invesion

time to head under ground toto what's carn form you pass

(such as anti-gravity devices) built and fitted

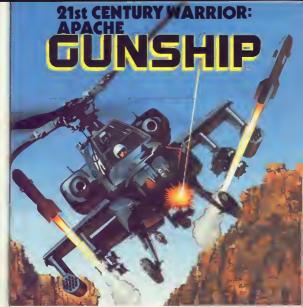
different from yet average scrolling shoot em

Andy Smith

C64 Version

8 IQ FACTOR FUN FACYOR ACE RATING 709





The Apache ... Fierce and elusive, like its warrior namesake ... Capable of defeating enemy tanks, infantry, and hostile aircraft on the modern electronic battlefield.

Gunships revolutionary 3-D graphics enable you, the pilot of yi into the world's hottest trouble spots. ...You'll use an unbelievable array of high tech information and weapon systems, including lasers, video cameras, night viewers, radar warnings, jammers, computers, missiles, rockets, flares and a 3Dmm cannon! Successful missions will be rewarded with medias and rank promotions GUNSHIP is available for the CBM 64/128K, Spectrum and coming soon for IBM PC and compatibles.



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AGENT X2

MAD pop the pimple



Z/TS are what this sample but

is all about, one of the many mad professors who abound in computer games is about to unsuspecting world your task

as Agent X as to stop us all from breaking out in terminal gizne The come is a 3-parter the first is a honsontally scrolling blast, the second a vertically

scrolling one and the third is where you bust through a wall to get at the mad part himself

It's very nicely done but

the hypnotic and otherworldly Graphics too are sweet, if

does tend a little toward the

repetitive - with the addition of





sombia like shoot-em-up trance Pete Contor

HYBERBLOB

Blob minding with FIREBIRD

BLOSPODS are among the most

of fun to be had. It's all bassonily





ACTION FORCE

Join VIRGIN and shoot Cobra

VIRGIN 5 Gang







GUNBOAT

PIRANHA mess about in boats

SPLASH bono wallon is the ceder of the day in this em-up Get out on the river in killer and shoot everything in an attempt to penetrate the

complex network of



enemy. You can fire missiles torpedoes shells or drop depth charges - which accounts for just about every type of enemy

There's a choice of soules to take, but wherever you go pretty tough - so tough thats it's pretty hard to even get going at the start of the game. The rather drab and old-tashioned graphics on this C64 version don't help much







WELL, Prench game that's not only a here's a turn up for the books - a | pretty tace but packs a powerful and addistive punch of gameplay as well Hitherto we've seen lots of programs showing off their dazzling cartoon style graphics but they sadly lacked anything else

This one fits the bill nicely Like many of the best ideas the game is astonish inaly simple all you have to do is blow a bubble through rooms But of course it's not quite as simple as that might sound These rooms are filled with a collection of surregisbe graphies and traps, whose presence makes the bubbles

progress somewhat problem-



biest and see

Doing the hulting and putting is the cute ghosty you control - a sheet-over the-head thingy of considerable charm Ghosty is rotated using the mouse buttons and given

breath by pressing the shift key. Puff though, is not unlimited a bar at the bottom of the screen decreases rapidly the langer you keep your linger on the key It you blow just a bit too hard Ghosty turns red, presumpbly the French go that colour rather than blue in

the tace As you'd expect the createst problem with the bubble is that it has a

conject with env of the walls or objects means the end To keep it airborne and going in the have to spin the abost around and

blow - with test the right force On the first few screens this is simple enough since you only have to go in straight Atari ST Version

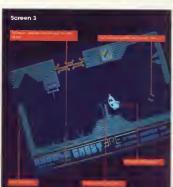
The graphics are with and neatly drawn, with some entertainingly surrealistic louches There could have been a tew more screens. perhaps, but you still get a fun-pecked prog

S IQ FACTOR ACE RATING 814

onwards though things get a little more tricky puzzles and booky traps are introduosd, while your route becomes much mose tortuous. Candles appear - and their heat will cause the bubble to ow Obere's or simple way to deal with this but we'll leave you to figure it out) Expanding and contracting walls mean you have to guide the bubble through the gap at exactly palit time and at exactly the right level thus provoking trantic readjustments of your angle of blow

BUBBLE GHOST

Spectral fun from ERE INFORMATIQUE/INFOGRAMES



Later screens introduce further problems, frustration and addiction both mount the langer

The feel of Bubble Ghost is reminiscent of Thrust as you rotate transposity in attempts to keep your bubble going. And like Thrust it's very addictive The only possible problem with it is that at 40 or so rooms in size it may not take too long to get to the end. But while ti losis it's great lun.

Peter Control

DELEASE BOY

ATARI ST	E19 95dk	REVIEWED		
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ARCADE CLASSICS

FIREBIRD rave from the grave



TO think that once upon a time we all went go-ga over games like these Nowadays Space Invaders, Asteroids Snakes and Space Wars look - and play like danoscurs from the land that time forgot. It's all a bit said really, a complication of arcade classics sounds like a great idea

DELEASE BOX \$1.99ca

they just haven't sophistication of arapitios ar comeplay to cut the mustord in these 16-bit times only the strange deen snace rack

Pela Connor

CE RATING 499

moducum of compulsiveness

INSIDE OUTING

The EDGE'S little gem

ISOMETRIC three demensional comes still make on while and if the games good as

stately home. The object is to collect (2 hidden lewels and take them to the lady of the house - who spends her time wandering autriestly around in puzzle Colourful grasphics add a

bears more than a passing semblance to Get Dexte Andy Smth







KROMA ZONE

MASTERTRONIC blast gagin

YET another gat some

depth or

onginality of



dodge-em up you must avoid your MantaRay shap This is advancing waves Assuming you get through that you go on this is with all sorts of sharpers coming at you Kromanones OK

TED INTEREST CURVE ACE BATING 43

RELEASE BOX

SUPERSTAR ICE **HOCKEY**

DATABYTE'S puck prog



JEKYLL and Hyde is what the two versions - IBM PC and C64 of this name bring to mind, on the PC ris graphically smooth, sonically tolerable and pood fun to play on the C64 its graphically poor sonically not and not a barrel of laughs

The games over is playing the game as screen, around this you can do all the usual stuff such as tracing players, telding caround with factics and competing in a league over a season All well and good but you won't really want to bother unless the gameplay is fun While on the PC you can hump and hare and see sparks fly

from your skales as you sput sound, on the 64 your man. moves more like a bawls player to the accompaniment of sound effects that sound like someone sweeping the living room curpet - as such, it's one strictly for the dedicalated for Hockey for:

Pele Connor

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AMSTRAD

SUPER SPRINT Electric Dreams £9,99cs £14,99clk

Spectrum version reviewed issue 2 – ACE Raling 907 C64 version reviewed issue 3 – ACE Rating

A bit of a disappointment reality, with little amplyamous mainting the games playability Collean electricans be dely off in places and the feel of the other two versions sort reality there. Still a good racing game, but not a great one.



ACE RATING 831

TRANTOR
GO! 59.99cs 514 99dk
Spectrum version reviewed Issue 3 - ACE
Roting 517

Great use of colour makes this adaways scotler a hig improvement on the Spectrum version. On the gartreplay host its simple blastins-sorch fare and the game teak is still a bit too early to provide any real long-term challenge – but what a stunner it is graphs only!



ACE RATING 681

RED L.E.D. Starlight 59,99cs £14 99dk C64 version reviewed issue 2 – ACE Rating 910 Spectrum version reviewed issue 3 – ACE Rating 910 Some very tasty updates are now available for your machines. Can PC owners afford to neglect *Gunship?* Can Amstrad owners be so unwise as to miss out on *RED L.E.D.?*

Bear in mind that even if we didn't particularly like the version of the game that we originally reviewed, the next version could be a whole lot better – as in the case of *Trantor* on the Amstrad, whose graphics put it in an altogether higher class than the Spectrum version.

Great scrolling - surprisingly smooth - endgood use of colour make this on impressive and worthwhite conversion. As on the other visions, the combination of blasting explotation and Spandings style destently gives it bears of long-sum makes treat a piece of set.

bags of long team interest and a nine left infing

ACE RATING 915

.

IBM PC

GUNSHIP Microprose £34.95dk



ACE RATING 902

SPECTRUM

IMPLOSION
Cascade £8.95cs
C64 version reviewed in issue 3 - ACE
Roting 702

Monochrome if may be but the scrolling on this shoot-em-up's satisfyingly just and smooth for such a tricky conversion subject. The Badeum-style Supover is gone and the sounds pretty unanspired stuff, but the game-play's still intact making it good sample fun.



ACE RATING 694

AMIGA

LEVIATHAN English Software £19.95

This izonon-shi 30 shoot-em-up finally moles if to the Amago, offering a competent but unexacting blast. Like other vessions it looks the teeling of urgency and desperation you get to be under the complexity its well-drown and withy but botter use of colour would have made for more initial amount.

ACE RATING 746



ACE

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PHILANTHROPIC you may be there's no place for it in the Phantom Club the secuel to the highly angunal Movie. In the guise of

a lowly Zelator (beanner) you must travel through a staggening 550 3D lacations ad pleting tasks and slowly climbing the ladder to lpsismus - overtord status with cample power to detect the neitmous Zara

Thankfully, the scon-control system which featured heavily in Movie has disapprozed in fact almost the whole screen is of the Club You Plutus begin with five rem comptions full energy and Brenstown (your fire power) The start room and every load tion thereoffer is littered with objects - some good some bad some purely for decoration To determine which is which will take con-

Completing missions entails locating and killing a character When you achieve Ipsistmus devet 10) you get to do battle with Zaro himself However a task is only set if rotive attained the agreet rank and have 48 000 points under your bett

Points are gained by blasting the bizarre commated objects. When Zaro's minions are shot they don't disappear some characters treeze others spin, the really nosty ones mutote

Phontom Club is going to keep you locked to the screen for a long while Neat

PHANTOM CLUB

Evil evasion with OCEAN

graphics pleasing introductory music and to explore and blow away

Richard Montero



to send him back to himson

RELEASE BOX

C\$4:128	E8 95cs, £12 95ck	JAN 88
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Spectrum Version

This is 8 big game and is definitely one for the muc pers and puzzlers. And if you didn't like Movie if a ful but are very detailed it's very playable and will

7 IQ FACTOR FUN FACTOR ACE RATING 845

PREDICTED INTEREST CURVE

FREDDY HARDEST Playboy fun from IMAGINE

FREDDY, our eponymous here is billed the galaxy' for his screen debut Fredrig has Milky Way and must tight his way off the

The game is a two parter, the first half taking you through a horizontally smalling large and rucely detailed and the aliens are large neatly animated and suitably wend



e to be



Playboy Fracely getting his licks. If bries sill sorts

RELEASE BOX

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load part two. Here you're inside the enem base searching terminals for a code with Although part two's screens look com-

less the same. The enemy base is a network of two-ter tunnels and corndors. You must crouch to avoid sounders and biasi or kick

in concept - dodge blast and luck your way ferent scenes in the second part if all gets Christina English

C64 Version

Gemeplay appears slightly tougher then on CPCs while yours in median and firesh you off Graphics

& IQ FACTOR & FUN FACTOR ACE RATING 715

Amstrad Version

Nice animation with Freddy strutting, floating robots bobbing up and down, elens folloping across the screens. Garreplay fast with plenty to shoot and watch out for The prophics are cheerful and colour full to the extent that the eliens took almost codely Some of the coërsion detection is decidedly suspect but when sumping from island to island it frequently

IQ FACTOR ACE RATING 734

RELEASE BOX			
C64/128	£8 95cs, £14 95ck	MMINENT	
SPEC	£7 95cs	CUTNOW	
AMS	£8 55cs £14 95ck	OUTNOW	

Spectrum Version

As you'd expect from the accepsor there e nothing too interlectually demanding in Japkal, Graphics are rether poor by current standards lenemy soldiers are liny and unconvenione stick fourte while backgrounds are standard issue stuff. The merely averson sound does nothing to soup up the fun

IQ FACTOR GRAPHICS S FUN FACTOR **ACE RATING 487**



JACKAL KONAMI koin-op konversion

TWO years too late is the initial feeling you get upon playing Konami's latest conversion, the game is basically the old Commando/Rambo idea in a jeep

The plot is pertunctory, you land behind enemy lines in order to rescue your captured troops. You get a jeep which can fire either a machine gun or missies. When you collect men you then go to a heli-pad so that they can be picked up by a chapper

As you'd expect, the temtory is intested with enemy troops and delences Soldiers troll ground with ours and arrenades, pillboxes with rotating guns are all over the place tanks are plentiful. Its a question of

about half of the screen and your seep isn't even pentred inside it so that when you get to the edge of the great you've guite likely to get blasted by a gun-emplacement you ocultin't see Furthermore the range of most of your weapons is such that you have to get dangerously close to things to shoot them. As well as the unsatisfactory gameplay Jackal also suffers from addition in the presentation in particular, the packaging

blosting all and sundry in order to survive

Jackal's playing area occupies only

much! lead you to think that there were ele ments of choosing characters with different campabilities or weapons no such luck You get what you've given - the web - and have to make do with it

Peter Cornor



Spectrum version. Blast the our, hight the lanks, hight the solidary

CPC Versian

The CPC Jacket is worse than the Spectrum in every respect graphics are even more submaniary with meetable-looking soldiers you wouldn't really want to recruit it you were running your own pirmy

4 IQ FACTOR 4 FUN FACTOR ACE RATING 450

on the ST version, but if won't give onwone spling Silent Service any slevoless rights

BLUE WAR

Plumbing the depths with GO!

BY the very nature of the real thing sub-The emphasis is always going to be on factcol monoeuvring and the controls rather then making free with the torpedoes and War outsinly doesn't let you down in the slow and cautious department

The game looks like a rushed release Onginally produced in France the Enalsh version has been sloppily translated with instructions like Tased the disk 2 and push enter" and the compass points on your cot tell you to press T to the torpedoes but they actually work a lot better if you press t

In the play you command the submarine U79 in the Pocific Ocean in 1941. Get the craft gaing dryw - or not - sight your torgets on radar/sonar check the map home in on enemy ships (this can take a very long time)

 Christina Erskine RELEASE BOX ATARIST E19 99ch OUT NOW OUT NOW

614 004

Atari ST Version Nos graphos and some good ploomly achoring spend effects, but there's little exceptant from ether

I IQ FACTOR FUN FACTOR ACE RATING 450



It may be duty only but it's acceptable alow to respond to key presses - yes, it's kryboard only Controlling the submanne's pourse is much less eccurate due to the use of numbers 1.9 to denote direction rather than compass points in degrees on

> & IQ FACTOR FUN FACTOR ACE RATING 425





REAPERS, coscissors. fools fond me considered for this demonsts discounts on this fair Western Side of ours. The Northborders, coice mann men like you and I have been louched by the motion of the Durk Soppire and have became the Lords Of

Tout, then, is the some set for this longcredited Mike Singleton game. The player lakes change of a band of seamons of warting ability and tries to use their disteng characteristics in an offering to before and recruit allies from among the other six tribes on the skind! The objective is to recover and destroy the Dark Souphs before it can do

You view the game through an onscreen window that displays either a representation of the characters on their travels or a menu displaying a number of possible





DARK SCEPTRE

Make some strange friends with FIREBIRD

choses that are available to whochever character you happen to be controlling. Alternating between characters simply involves moving either your joystek (or pressang a key) eit or night. You them sout up to three separate orders to the character when you have limited the screen switches to show you character stemping of the com-

Familiarity breeds contempt?

When a programmat writes a very successful geme, he can find himself with a reputation to line up to. Mike Singlistion is one such programmer: his immensily successful Lorde Of Monight and Doomderk's Revenge games have meant that any further release is bound to be comprised to the action experience.

In some respects Dark Sophers was comparable to the active gener. The dose of having to record allers and utilisis (their parsoul at abthirds was seen in both of the adarts plants to disclose here a very good game. Dark Sopher just desert seen to create the games the state of the control of the adarts and active the control of the discrete the active games were Could to be that Make Songleton has reached the end of this parsonals were.

plete the first order (to the best of his ability)

Orders possible includes IMARASINg offers warmes SEGE (STASSINg SEGERAL SEGERA SEGERA SEGERA SEGERAL S

Mirely attempting to late the Scopta of the beginning of the game is not such a good liter on several steps have to be later to ensure the power of the thing doesn't destroy you. There are lots of other objects found around the sile that can be utilized in the ottempt fo reach your good and it up to the player to factorer how these objects are

Dark Soptie has a very lamilion feel and a government of the dark of Midnight or Doomdarks Revenge in that the game is deep and complex with eacuph happening to keep you engressed and playlos for morehis to core

Andy Smith

Spectrum Versio

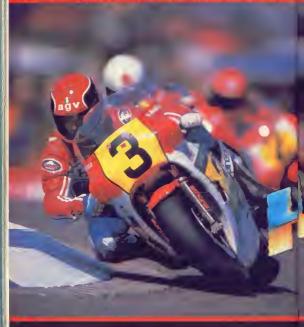
High collegate service region the game area classifiusely in commal. A black bodies service and each figurprevents stry hard of attribute classis. — its clear effective and very well-done Sound of similar of stronging bodiestes and children selection strateging stronging bodiestes and children selection strateging stronging bodiestes and children selection securities socialment or a Classifient. The large game streng and the attribute of saving of objects of the proacting of grant some time. Even so the ability to save in game position stratifies give it such and play for all accretic which the best in bodies and accretic which is described.

GRAPHICS 7 IN FACTOR AUDIO 7 FUN FACTOR ACE RATING 856

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CHRISTMAS CRACKERS

of the cheapest ways of buying games - particu larly if you are buying a new computer even more so if you're buying one that has yet to attract a large software base (such as the Spectrum Plus 3) For around the price of a new full price release you can add tive ten even a dozen games to your collection Classics of yesteryear recent hits and the add turkey all tostle for space on the tracks of these software albums. We take a whistle-stop. tour of what's on other this vulntide so you can make sure Santo's in no doubt as to what you'd like as a stocking filler

The Elite Collection

C16 £14 95 cs C64/128 £14 95 cs £19 95 dk Spechrum £14 95 cs Amstrad £14 95 cs £19.95 dk

An eight-game collection that leads on cole-op conversions and includes a title that was hald back from sole release - Battleships.

VOLUME I

Bomblack

A competent convenion of Technique the receivem platform roop that sits a caped anisote on the loads of bright points. The occors is lastly straightfor world - sprang around each successive street, appliering up the bombs, and gother them is the contect order for maximum points. There's no depth of pict or involved accommon to bettle the brain potters from the point potters from the potters from potters from the potters from the potters from potter Commodore owners might be a little less impressed than their Amstrad and Spectrum owning collectures

Frank Bruno's Boxing Effectively a version of the

attacle scrapping game Punch Out, this was Eite's contender in the bosons amulation stakes nearly two years ago. Eight box ers stand between you and the World Heavyweight Champi anship each with their own paroculor tighting style Viewing the action from behind your fighter, the mm is to reduce your opponent's stamuna and then knock him down. Three knockouts leads to a convincing distant and an access code is coven which allows the next fighter in line to be challenged And no Joe Bugner sort one of the eight brusers ranged before you in this playable sports simp-

Commando

finders blood

Capcom provided the latence and the battleheld action is tast and futious in this one-man mission of maybern and destruction Romping or should that be vomping across the vertically scrolling knidscope the gam is to knock out four enemy forbesses The enemy quite naturally takes exception to such displays al herasm and a host of soldiers comed with single shot rifles grenades bazockas and mortars queue up to put an end to your ambition Fortunately your sub machine gun never runs out of azzmo and there are boxes of grenation lying around the terrain to replensh your supplies The going gets tougher the further into the come you get should keep infl-comy joystick wielders happy until their tragger

tions of classic or notso-classic games appear on the High Street shelves, but at this time of year, with Santa about to start his annual round of house-calls, the software industry goes compilation crazy. Graham Kidd sniffs out some unbeatable bargains...

Every so often, collec-

Airwolf

Assuming the role of Vietnam veteron Stringfellow Howke your mission of the controls of a helicopter is to rescue five scientists held prisoper in a network of coverns Before you can get to the impraoned bottos the complex defence system that ackerns the cover has to be shot out element by element and there's always the risk of crushing into the rock walls. A golden oldie this, dragged from the mats of time when Eite was but a fedgeling software house - still stands up as a shoot-em-up not least because mastering the controls of the helicopter takes a

VOLUME II

Paperboy

This warrs off-time chart his



blocked by Golliup - it proved calment impossible to discope from the Number One sixt Ped-alling round suburbac as the resolution of the local ring the calm is to deliver papers to subscribes while rounding pedestrians and komulaces verhales and komulaces verhales. Retires than place the newspopers in all beliefunders you have to half them — must and you run half beliefunders.

the risk of breaking windows. At the end of the round bonus points are collected by inding over a BMX course and indulging in a lat of target proction Annoy too many subscribers and vayive taken all the round - build up the round and the points potential manages. Not Elite's best effort at convertand from the cooxies, but sales levels made it a clear winner

Ghosts 'n' Goblins

A fair marden is captured by an evil demon, so the knight has no choice - the demon horde and the forces of the supernatural have to be overcome on a scrolling quest to the demon's loss where the locity may be rescued Probably Enle's best arcade effort so lar - true to the eriainal and lets of tun to play Need more be said?

Battleships The game they dare not

release All credit to Elite for realising late in the day that this computerised emulation of the gov-old penal and paper game couldn't really stand up as is full-conce release. These's nothing borrowed or blue in The Elite Collection and this game slots in as the new An interesting diversion but never likely to become a cult classe.

Bombjack II

Better than the original For once untrammelled by the constrictions of producing a fastivital version of an arouste arme. Difehad some tun. The caped crusociet mode formous by Tehlem abandons bombs (too dangerous) and collects bags at gold (more lucrative) Another pigtform/collecting game the sequel boosts many more screens and includes mutating monsters that and smarter that longer you dolly. The little baiddies can be buffed, but that uses up energy and when the hero gets tred out he does. Lots of fun

Yerdici: A good, solid collection of games that offers plenty of variety al 8 reasonable price.

Ten Great Games

	Gressia
C64/128	£9.99 cs £14 99 dk
Spechum	£9 99 cs
Amstrad	89 99 cs £14 99 dk

Not six of the best, but len of the best games launched into the world over the last couple of years by Gramlia Graphics, Well nine than, and one from Vortax. Picky, picky...

Avenger

Gremin's answer to scrolling shooting dunction games like Druxi and Gaussiel sets an on ontal hero on a quest to penebate the lair of an evil overload and rescue some scrolls linner force and endurance are decist-



that try to thwart you as you kick and punch past them A limited supply of deadly shuriken stars is available to burl at the loe. Nothing austandingly original hero save the moving sections of floor but still or very playable dungtions deriva-

Future Knight

A shot pictforms and lasiders game set inside the hulk of a croshed spacecraft. The hero scurres round attempting to kill or ground the besett wounty droids as he hunts for extra weapons and keys and finally the exit pass that gives access to the outside world. More spells have to be collected in the Great Outdoors before the engreamed marden (the cause of all this



frontic octivity) can be freed. A polished aroade adventure that should challenge a range of

Krokout Breakoul come back into lashion this year for an as-yet-unexplanned reason, and bells and whates were added to the basic concept by a host of software houses Gremlin weren't going to be left out and so offered up this competent variation on the theme Playable and fun though arguably not the best of the second breed of Breakouts. but still stands up well particularly on a compilation

Bounder

A maddeningly addictive platform game with one major difference - the players viewpoint view the action from above bouncing from one section of platform-paying to anothor as the vertical scroll forces the page Ten courses to

negotiate with a bonus soction at the end of each oil packed with twists and turns like atthlowers to drive you off course impossable walls that have to be bounced around and extra bounce paying slabs Airhome hazards and valcones make hie that little bit more difficult Addictive instrator and fun

Footballer of the Year A sort of Tootball-oooly' in which

your aim is to become yes that's it Footballer of the Year Strategy is involved in deciding how to apply your financial resources and a soot of arrande skill comes into play when you get to shoot at the goalmouth Gamble wisety play well and you could and UD as F Ves, we've got the pic ture. An interesting and patentially very addictive game that is playable even if you aren't a

Trailblazer

Wowed What a race came Dapensing with the usual souped

up hike or formula racing car you toll a ball along a chequered pathway that scralls out of space Gates in the pathway must be negotiated if a time penalty is to be avoided and policur-coded sections of track speed the dall up, slow it down or confer extra sumping ability Desperately fast and furious. ory for the track are called for it fun on your own, more fun with a triend



Highway Encounter

The only non-Gremin game in this collection chosen no doubt on account of its masterly use of 3D An olien mothership hirks of one end of a long dangerous highway and the means to destroy at colong with a team of tive subservient droids is parked at the other end Your aim to push the decidy lastertion down the room and destroy the alien craft. Only one diold at a time can be used to shove the weconon, and a host of others has in your path. Thought as well as shooting action is involved as some patrolling aliens need to be based in by shoving barrels and boxes around the road

Monly on the Run

The classic follow-up to the come that launched Gremtin The hero mole is out of clink but wishes to fire the country - to do so money and an escape kit need to be collected by leaping round the pictiarmed environment Monty finds himself occu pying Full of sneaky twists and tortuous puzzles the game coils for pixel periect positioning and



W 000

als out thway

trock detwo billy orious, lor r

bubt ne ct is at

700 4 E

hine West Rank

Gameplay couldn't be much simpler a door opens to reveal a goodse or a baddle Shoot the goode and lose shoot the badthe before he shoots you and you win Every now and then a little character appears in an open doorway with either a bomb or bags of money on his head Shoot the bomb and you lose shoot the money and you wan. Move left or right to pan your field of view pages the doors you have to defend press fire to shoot That's ill but the games great fun to play

a cool head. A dastardly difficult

platform-based arcade adven-

Jack The Nipper

An arcade adventure with a fairly traditional find and move vital object to correct location construction but feat hinng the added gloss of comic characters that Leo Baxendale (deviser of the Beano's Bash Street Kids) would have been proud of Rother than being a hero you are past as a tmy villen not yet out of nepuses whose arm in life is to be as naughty as possible. Chuckle at the grophics, puzzle over the bendish riddles and find yourself

Vardici: Essentially, 'The Best of Gramtin' - a collection of respeciable games that moresents axcellant value and offers a wide mix of content and playing styles. A well-rounded selection that would form a good basis to s softwars library being started from scralch.

Live Ammo Ocean

Amstrod £9 95 cs £14 95 C64/128 £9 95 cs £14 95 Spectrum

A apecialist Interest' compiletion this one - Il you like your pixale militariatic and served up with planty of opportunities for murdering the opposition, then Live

Ammo is the compilation for you. Apparently W.H.Smith Insisted that the name be changed to Live Action - we reckon II ahould just be called Sick, Sick, Sick...

Army Moves Wa will fight them from the jeep we will fight them from the our we will fight them on foot Such might be the motto of the Secret Operations Corps You are one of this alife squad with a mission to retaive a set of plans looked away in the enemy's HQ that



hes at the end of seven combatndden lovels of play Blast the bacides from the relative comfort of weep while avoiding hasands in the road take to the air in a chopper and then fight through the jungle on foot. A difficult game to play - which can lead to frustration or latel article-

gie on the trail of some captured comrades this offers Commondostyle play in a different multidirectional acrolling scienario Purists may prefer Commando to this clone with Stallone bul there's a fair bit of fun to be had if killing gooks is your bag. including the opportunity to plot a helicopter lorden with your buddles (if you get that far) On the other hand, if killing gooks as your bag then you probably don't deserve any buddies anyway A little short on playability. but fun for those with sichy tincores

Green Beret Yet occurs it's lolf the enemy sol-

dies and rescue your buddes



time only it's a harizontallyscrolling killing field that you have to traverse Armed with a knde and son determination three levels need to be negotiated before the mission ends, each packed with suppose tempore tighting men - and a truckload of soldiers wasts for you to arrive at the end of a level Grenades and fiamethrowers can be calbut the extra frequerer only lasts for a few blasts Highly playable every bit as much fun as the areade original

Top Gun

A particularly good film tie-in - one that doesn't bother trying to mess cound with following the plot This is a one or two player combot flight smu lator that seats the combottom in the cocked of on. F14 Torncot thence the

Top Gun tie-in) Vector prophics, with an obstract row of dots for the horson, are used to display the view from the drawng sept, and head to head combat is what the contest is all about Excellent fun, even if you creent o fight simulator for Even more fun when you play with a fnend

The Great Escape Yet another classic title from the Denion Desions team as much of a movie as a game - it's well worth tast watching the action for a while before starting to play life morches on in the POW comp, whether you try to ascoppe or not Prisoners and guards go about their daily rautine seemingly oblivious of your intenhons Formulate a plan. gather up the equipment and try to make good on escape Fool or be cought out of bounds by the awards and it's a spell in the cooler A challenging accade adventure with a novel presentation Some Italiang but not a lot which just goes to prove that you don't need blood-

shed to borrow your thrills from

Vardici: Four oul-and-oul combal games rounded off by a spell as a POW. Shooting to kill is the main theme, although there's some opportunity to use the Grey Matter lo advantage.

Magnificent Seven 6 malend

C64/128 £9 95 cu £14 95 dk Spectrum

Not seven, but eight games in Ihle action collection. Which one's the 'free game? Answers please, on a poelcard...

Head Over Heets Jon Ritman provided the world

with Salman and then went on to force even more convoluted



conundrums onto the isometric world of grootie adventuring with this tale of two alien secret agents teaming up to destroy the forces of evil Nothing tentbly remarkable or new in terms of the presentation or style, but what a load of game if packs Withy sound and graphics combine with the tendish puzzles to copture the attention of the most avid accade adventurer

Another Breakout variant (see Ten Great Games above) this one gives you 33 frames of back bashing ball-batting action. One of the best examples of the genre

A first rate game on the Commodore from a new program-



mind partnership that lost out somewhat in the transfer to the 280 A zany arcade adventure that costs the player in the role of plometary decorator - aliens have stolen all the colour from Wizworld, rendering if a drab place and it is the task of the Waxed, caded by his mastic boil and pussycat to collect and max pagment and thus bring colour back to the world. A charming officent scenario is enhanced by the way the wa has to interact with his out to get the task done

Short Circuil

A film be-in that annuits of an 3D aroade adventure section followed by a chase and short sequence over a scrolling landscape The cute robot Number Five, has to find security keys in order to escape from a factory/office complex preferably with some weaponry and then award his makers as they pussue him cross country. Great fun on the Amstrad, a little flat on the Spectrum and less him still on the Commodore Strange how widely the three versions differ in appeal

Cahra

Another Statione-clone tie-in the battle action is against itreet thugs, a damsel is in distress the backdrop serolls horzontally and is peppered with platforms Green Baret in a different guise and three different incornations. almost The well-playable Spectrum version is full of humour and anded touches while the Amstrad version is a little too easy and the Commodate Coher more of a slow worm than a

Frankie Goes

To Hollywood A true classic that brought a new dimension to both te-ins



.. And that's not all!

the rext month or two. Three Coin-On Cleaning us on its way from LIS. Gold at £9 99 for instance feeturing Breakthru. Crystal Castles and Kung Fu Master (not the most powerful trip of arcade versions over ssembled) Then there's Beau Joly's Five Star Gemes (anain leaturns two freebes, making seven) that comprises Alien, Way of the Exploding with Amstrad owners collecting Tempest and Commodore and Spectrum

it doesn't all slop at Christmas, either. Should you find thera's still ome geme-buying cash in the lotty in January, Hewsons' Four Smash Hits wouldn't be a bad buy, offering Zynapse Explon, Ranarame and Undum Plus for £9.99 on cassatte or £14.95 on disk (including Spectrum A if demend makes it viable)

treaks

Amshad

C64/128

Spectrum

Ace of Aces

play their own personal

weapons and lighting styles

Kick and punch your way past

the opposition to fame and glory

- If you can Great fun for fight

Remember Dambusters? Well

this is deguably what Dam-

busters should have been but

news quite was Ensconced in

the cockpit of a Mosquito you

get to fly missions against Ger-

many choosing whether to

intercept bombers or rockets or

perhaps agong for a U Boat pen

or train. Half Eacht simulator (no

landing or taking off skills called

tor) and half areade combat

game this should keep potential

croused - you don't have to page

over a huge manual and prac-

tice endlessly to start flying com-

A ventable pot-pount of

occinestyles is on offer in this mis-

sion to save the world from vet

another maximum and his

henchpersons Plict a helipopter

to the base in the flight-simular

pleasantly

3spalesworths

Infiltrator

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and groade adventures Ducton | Designs excelled themselves not a Franke to be seen anywhere in the game Instead the central character wanders round a terrace of ordinary suburban houses searching for objects by touch and using them to enter sub-games Love sex war and relation factors have to be increased until they reach maximum whereupon the player becomes a whole person Only then can you contemplate entering the pleasure dome. A very unusual playing style myolyng a running sub-agine in which you have to solve a

Not just for kids ... Kids Play offers fan pretty good s well worth checking out - not least because all the pames have been donated to the cause and any grafts made are sent

help disadvantaged yourgeters murder. An essential part of anyone's software collection if only because it's so different

Yle Ar Kung Fu

Intogenes version of this Konairs. coin-op let went down better than Way of the Exploding Fist been photographed fly back to base and start all over again A secret agent game that auditions of the skills needed to join the secret service Winter Games An octet of acy action dames

from Epvx the sports simulation. specialists Sia skate or take the challenge of a greate run in a bobsled. All the gloss polish and playability that have made Epvx leaders to the field - as much fun as Summer Games, World Games and California

and search the buildings for

clues and vital information

Once the secret plans have

Gauntiel

A hit conversion of a hit arcade game Play solo or with a triend. choosing which of the four intrepod adventurers you wish to take into the walled dungeons Collect food treasure and potions kill the nustres and attempt to conserve strength for the later levels. An excellent hack 'n' slav excursion into the world of scrolling dungeons

Leaderboard

THE golf simulation Until Leaderboard arrived on the scene galf was a pame that hadn't managed to fire the impaination of game players you either had the 'puret' simulabons (deadly accurate deadly borna' or the so-called 'arcade simulations (liftle stick men on green backgrounds) Leaderboard the controls were simplified the view of the fairway given from behind the tee and the game tinally made playable and fun for all

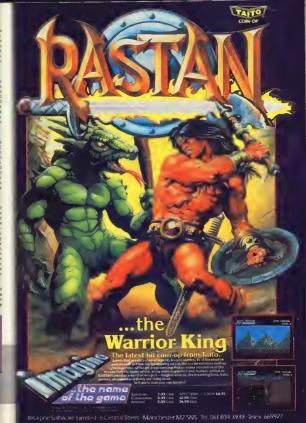
Verdict: A good mix of gemestyles essembled from the better part of US Gold's back cateloque - a lot more user-friendly on disk, however.

Budgei Bargain

no Four Great Games Volume C16/+4 as well as the thme offering different sets of







10 Computer Hits 4 Benu Jalty £9.95 ca £13.95 dk

C64/128 £9.95 cs £13.95 ds Spectrum £9.95.05

And two free games makes Iwelve Everyone tiels a copy of Spindizzy the Hist-rate Marble Madness-esque spinning too game and Dandy. Electric clone market which came a bit lete and proved less than Intelly

mon to all three formats

Slarquake

An excellent cutesy arcade adventure from the programming par laur of Steve Claw guaranteed to amuse

Deactivators A complicated puzzle

dame that requires you to clear buildings of bambs and reassemble a com puter using Deaptivates draids Flenty of brainpower is needed. to solve this unusual game.

Sacred Armour of Antiriad

A begunfully cresented plot torms-and-mapping arcade ponents needed to activate on anti-radiation suit clamber into it and destroy the alten mother craft that is terrorising your tribe

Bride of Frankenstein

Go off in search of Frankies missino orogns in vet another arroade adventure - this time the action is a little autiky but fun nevertheless

Uchi Mata

Probably the only sado smulation so for attempted on comput er - and accuracy is the order of the day To begin with play is relatively easy, but senous thought as well as serious practice is needed if you are to progress to beging the more

skilled apponents. An outwordly complicated game that offers terwards of You persevene

The Spectrum and Commodore collections 'shere' Ihree more A straightforward pol-the-boils

games-Classic Snooker

baze production.

Alleykot

A fast-action scrolling race

dame from C64 cull program

The Commodore collection is

Ap unusual and appealing sub-

The excellent tost and furious

Jed Minler shoot em up lbat

includes sub-carnes where you

can take a rest from the energy-

collecting and alien-killing

which forms the core of the morn

Spectrum owners can Ihrill to the

delights of tomb-exploration in

the 3D arcede adventure

Pyracurse or go on a little privale

Investigation all of their own with

Contact Sam Cruise

terranean platform adventure

mer Andrew Braybrook

rounded off with:

Iridis Alpha

Magic Madness

Skate Rock An unpolished but playable skateboarding excursion where points are awarded for collecting Sags and avoiding hosards

Amstred owners receive a different set of live games along with the five common titles

Tilaxos

Sets you in a fairly traditional 3D isometric adventure scenario an the miled to rescue a man who is capable of saving the human race. The page of the game is a little slow and the puzzles less than mind-twisting but theres enough to keep you busy during a rainy afternoon

City Slicker

Off you go in pursuit of the equipment to defuse a tempost bemb following a fairly traditional areade adventure format set in London and featuring many tambar land

SCUIDES Pulsator

A straightforward mase game that doesn't impress with the graphics but sets quite a tricky tosk involving the rescue of five opplives

Elekhaailde

A race came with a difference you race against time on a set of obstract courses hindered by spheres, cubes and boits of enermy dropped from the sizes. Differ-

ent bul a bit dodgy Revalulian

A tortuously tricky more pazzle in which the player seeks to cross successive levels that make up a hostile 3D landscape deactivating two cubes on each level In control of a bouncing ball the arm is to avoid falling into a bottomiess chasm, escape the chalches of a variety of abstract but mobile aliens and touch first one cube and then the other within a rapidly diminishing type limit Tricky shuff

Verdict: A fairly random selection of games presented here, some clearics missed in with some mediocre or lese successful Illes. Nevertheless, good value

for money and a reasonable mix 'n' melch of gemestyles.

Game Set and Match

Осенп £12 95 cs £17 95 dk Amstrod £12.95 cm £17.95 dk C64/125 Spectrum £12.95 rc.

Twenty Iwo sporting events in one package amough majerial to form the basis of a pretty real simphely plympics that should Baht names are common to all

formats Rasketball Barry Mc Guican's World Championship Boxing which sets you on the quest to beat Barry himself on offers the opportunity to set up the personality of your contender and train him between each boul in the lead up to the challence fight. Jonah Barringion's Squash the classic com-optoystick woodlet Hypersports featuring six events, Ping Pong again from the arcades Daley Thompson's Superies! - on octathion rather than a decathion, and Super Soccer

Commodore owners round off their work out with Snooker and tenns in Matchpotal while Spectrum and Amstrad athletes take a gentle barroom break with Pool before going their sepcrate ways onto the tennis courts with Koncomi's Teanis and Matchpoint respectively

Game Set and Malch offers a positive pigy of muscle-wrenching ethietic action and represents alupendous value to anyone who prefere to work up a sweat in front of the TV rether then get there on the field or in the court. This is the only specialist, theme compiletion on offer this Christmee and forme on assential, good value purchase If aporting simulations are your mainstay. Just about all the games on offer are high quality and were very well received on their first outing, but some of them do go back



rether a long way...

SHEKHANA COMPUTER SERVICES | March | Marc Order by credit line 01-348 2907 (24 hrs) MACHE HOW MEBUTISE THROUGHTHE THAP BOOK ROYCE THE POLICES SHAPES TANK AUSPARTS THE TANK C+ E SP V SPP V S min sign errors of the control of th RAW TORRO - RUM BUT INC MACHINE 10 ES JOSES MACHENIS PUES E PARTICIPATO REMPISTOR RETERMINES GAT COMMONBURE COLLECTION NACE Class and Colomy/fest Class and Colomy/fest And Colomy/fest And Colomy/fest And Colomy/fest And Colomy/fest And Colomy/fest And And Colomy/fest And Machinery And Machi AMK MOUSE USHINEN - INTERFACE The state of the s PAUS TORK CAMANIS CHIEFE THE WAY CONNECTED TO THE WAY THE WAY CONNECTED TORK CAMANIS CHIEFE THE WAY CHIEFE THE MOREONO PROPRIEST - 100 PROPRI ETIM M TTPR CDF-56

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Nothing like it has ever been on Earth before. It came for the thrill of the hunt.
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Moli Order, Activision (IKCLIst, Links 3.8.4 Lloyds Close).

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UNIVERSAL MILITARY SUCCESS?

Rainbird's Universal Miltary Simulator is designed to simulate a confillct between two forces on a user defineable terrain that can be viewed in three dimensions from any one of eight directions. The programme takes full advantage of the ST's GEM display and heralds a new era in 16-bit computer warcamino.

UMS is one of a small number of protined the state of numerous powers to case to state of the state of numerous powers to case of state of the sta

There are five pre-set scenarios (with further scenarios to be made available in Up to eight orders may be issued to any unit of the start of a simulation phase and these are processed by the computer with a pause between each of the eight stages, at which point you can accuse what's going on

Running a simulation

Many considerations are taken into account by the program including morale terrain and efficiency Once a smulption phase has been entered you cannot change your mind about the orders given which is perhaps a

agit time agreement with time to be a sensitiving boxes of the sensitiving boxes.

Zoomer out!*

Zoomer out!

**Zoomer out!*

**Zoomer out

CINIC ZOOMS In.

2 still be player when it acress to being order, and national count is series to being order, and national count is series to being order and national count in being order or and the series of shows the series of the transaction of shows the series of the This series of the transaction of shows the series of the This series of the This



Markinshi Mark Berdauer (ether for drough Viewing the herfe field of Gettysburg from one of the eight populate

future). These range from Athela in 33 IEC is Gattyahury (SAS). Whether you play one of thise or one of your own the program first anter the Ran Samilottion section, which in lum presents on Issue Commands phrase and the Movement/Rottle Phase The computer can pitry one, both or none of the loroes involved and our disc be forest by the player to mick inclined decisions.

use putyer thristian including them been. Once the desired stronger has been desired in these demands and particular them of social and the stronger of the st

Have you ever wondered how Napoleon would have hared against Alexander the Great on the bast field at Gettysburg? Wall even if you haven't, UAKS gives the player the chance to create basts on forces of almost any size from absolutely any time period on a fermin di the player. That level of interaction really does give a wargamer acope to exercise his in the terrain and the ferces —and then put then together. The player is limited only by his ow-ation when it comes to creating scenarios, and the manual shows examples of terrains repreing both inferior locations (e.g. castles) as well as lands



weak point but mirrors to a certain extent the irrevocable nature of commands given in real warriage Battles can be saved to disk at any stage and can be resumed whenever the player has the inclination to continue

UMS is not a simple program to master, but it process coreful study. The anstructions are slightly too concise simply because there's so much to cover but anyone with an interest in setting up formicaly theoretical or actual conflict simulations will find it invalu

able It's also worth mentioning that Rain bird will consider mar keting scenarios created by users, in much the same way as Incentive market graphic adven-

tures created by their Zooning In - making factical deci-

sions can be helped by yursing the forces from close range and iron Many amples.

Universal Military Simulator

(Janipha Soltware						
Atori ST	€24 95	IMMINENT				
BIM PC	£24 95	IMMINENT				
Macintosh	£34 95	JAN 88				
Amion	20 103	JAN SR				





ne for guesning what these members of the Buth Wargereing Group are staring at ... Alexander on Darks to

We called in the local experts to pass Judgement on UMS. Chris Brann, from the Bath Wargaming Group, together with Garrett Moorhouse, Mark Thurslield, Nick Gray, Mark O'Donnell, and John Csonka, put UMS through ite paces and delivered their considered verdicts.

Although Initially Impressive members found the displays of the larger scenarios (e.g. Waterloo) confusing, despite the numerous Zoom options. This, combined with the difficulty of including rivers in the tenam, led to some doubt as to the program's suitability for setting up modern scenarios, where conflicts cover very targe territories. The program's going to be great to anything pre-20th century because the bettirfield is likely to be small er. But take something like Battle of the Bulge. with a huge playing area and you bould find Things getting very complex

Some sort of randomising factor should be included, affecting the response time of contain units, for example, so that the 'nail-biting' aspect of warcaming pould be emphassed. A further option suggested was the ability to designate parts of your own army as computindependent commenders

In addition the position of the commandee-in chief could be shown, with perhaps a viewpoint of the battlefield from his/her location. This would introduce some of the probterms anning from fields of view where the action is hidden from those who are directing

Everyone was very enthusiastic about UMS, despite the suggestions made above "I can think of some tremendous scenarios you could program on it, onthused Garrett Moorhouse, and members were particularly excited by the ability to blank out the poposing erroy. making it invisible to the player. That feature makes the program ideal for guestia warfare simulations, with irregular troops and limited intelligance on their location," Chris pointed



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COMING SOON - CODE MASTERS-PLUS, A GENUINE ADVANCE IN GAMES TECHNOLOGY





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There's a real Christmas hamper this month, full of succulent tips, pokes and maps on all those games you want to beat. We bring you indestructibilitv on Amiga Goldrunner. Infinite naughtyness on Jack the Nipper 2, infinite lives on Re-Bounder. and much, much more.

TRICKS'N TACTION

F-15 STRIKE EAGLE

SED.512

C64 version

Going crazy with frustration at always run ning low an fuel before vou've taken out more than two enemy installations? Frustrated that dropping external fuel tanks, or otherwise lightening the arcraft by progressively using up the ordnance mounted on exter nal pode, appears to make no difference to the fuel burn? Well, now a solu-

tion to having to constantly return to base for fuel is at

Engine power is safed by turbine rp.mis on a percentage basis This comespands to the keyboard as follows

60% 66% 70% 80% 85% 90% 95% 100%,55%

Afterburners can be engaged by pressing the 'A on the keyboard, this is quoted as increasing the fixel consumption at a rate of "about 60% higher than at the 100% rpm

At the bottom centre of the screen cockpit knyout is the fuel slatus display. This reads as pounds of fuel remaining and is constantly recling downwards. Careful observation will

reveal the direct relabonship between the percontage of thrust the prior has selected and the amount the fuel decrements - this relationship is as tollows.

Keyboard 1 2 3 4 5 6 7 8 9 0 6 7 8 9 10 11 12 32

So if the pilot is running at 75% man's for example the fuel status display will be going down in lease of 7 lbs at a time. But it 55% rpm thrust is selected and then the otherburners engaged the assault's speed increases but the tuel burn rate remains at 3 pounds The plot now has the range and

endurance to do a areat deal more damone to the enemy. He can siy at Mach Plus speeds on route to targets or fight at an optispeed for threat

This has the additional advantage of enabling the print to more effectively decoy heatseeking massles. If the offerburners are engaged and a heatsoeker is closing on the aircraft the factic to follow is, written until the missile is within 5 miles, disengage afterburners and simultaneously release a decoy figure. Take trameduate evanive action. se sharp turn, and the F-15 will always escape the heatspeking SAM will lose the extremely intense heat signature of the exhaust on afterburners when the much cooker signature of 55% thrust is selected and follow the flare instead

RESCOUNCE

And with this tip, you can usually always afford to fly with afferburiers encooed

WARREN CANN. East Finchiev

SUPER SPRINT

Make sure you always qualify on the Spectrum with this poke

- 1 REM Super Sprint poke 2 REM (c) J Numes '87 3 REM ACE Dec '87
- 5 CLEAR 32767 10 PRINT AT 10;3; "START
- 'SUPER PRINT TAPE" 15 LOAD ""CODE 65088
- 20 POKE 65108, 194
- 25 POKE 65092,37 30 FOR F::65400 TO 65413
- 40 READ a: POKE F:a: Next F 50 DATA 62,201,50,206, 102,195 60 DATA 0, 154,205,64,254, 195
- 60 DATA 0, 154,205,64,254, 19: 70 DATA 44,255 100 RANDOMIZE USR 65408

JERMAINE HUMES, Enfield

NINTENDO THE FIRST CHEAT?

This tip for Super Mario Brothers will prove invaluable for anyone having problems in the Nintendo classic



After you die ond go book to like it is cower, instead of previous gotten and the could be something to the something to the previous wealth you were on suppring off the level of before it. For example if you are on level 4-2 and you die, do fine

RICHARD ELTON, Stoke-on Trent

MYSTERY OF THE NILE

Mysterious passwords on the C64

Level 1 HD576172V Level 2 HE576171V Level 3 HF576170V

MITCH POMFRET, Stockport.

110 Advanged Computer Entertairment

PLEXAR

Spectrum

Certain squares (black and white diagonal lines) make you bounce backwords one square and list is difficult when many such squares one next to each other. The solution is ample - bounces on to the square and before you bounce back more the joyatic for keyst to move you in the apposted disection. The square thinks you barrie landed on it from the opposite direction to the real one and thus bounces were for other ware - which is where you want to not bounces were for other ware - which is where you want to not

BEN SINCLAIR, Farnham

INDIANA JONES - THE MAP

courd H

PART



Jefferson Thomas hos provided a map of the first part of Indy Jones, showing the positions of the captive children, the snokes and the whip pales

CAPTIVE CHILDREN

GOLDRUNNER | MISSION Amiga indestructibility

Press I to start a 1 player game then fly forwards straight into the first building. When you crash hold down the F5 key until you see the status screen. Then - with a little bit of luck - you can pass through anything unhurt

MAX HARROWER. St. Austell

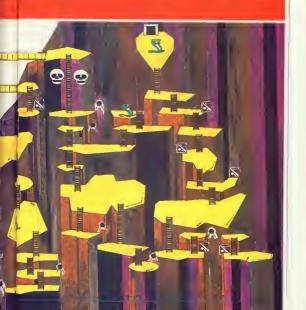
GENOCIDE

Choose your level on the Amstrad version

To activate the cheat made type QED on the title screen then press keys 1.9 This gives access to these levels

RICHARD JENNINGS, Abeaeron.





INFINITE NAUGHTYNESS!

P-right M Gen

Infinite Naughtyness on the Spectrum Jack the Nipper 2 Plus the chance to chonge those 'orrid control

10 REM JACK THE NIPPER 2 20 REM @ 1987 CHRIS WILD 25 REM ACE Dec '87 30 CLEAR 24575 40 LOAD T SCREENS 50 LOAD CODE **60 POKE 43251, 0: REM (INFINITE**

LIVES 70 LET A=50 LET B=247 80 LET C::71 90 REM LINES 110 - 150:-INVINCIBILITY 100 REM LINES 160 - 220: - CHANGE

110 POKE 41222, A:POKE 41229,A 120 POKE 41297, A-POKE 41330 A 130 POKE 41444,A; POKE 41576, A 140 POKE 41696, A:POKE 41763, A 150 POKE 41797, A: POKE 42314 160 POKE39820, B:POKE 34372,B 170 POKE 49884, C:POKE 49911, C 180 POKE 49897. C. POKE 49863.87 190 POKE 49891, 251

200 POKE 49905,253 210 POKE 49878 223 220 POKE 49857, 127

230 RANDOMIZE USR 34240

This results in the new control keys being: Q-up A-Down Culab

> 1-Quil 3-Music (on/off)

> > If you were happy with the pld keys then simply leave out lines 160 - 220 CHRIS WILD.

Oldham.

RENEGADE

Infinite lives on the Spectrum

1 REM ACE Dec '87 4 CLEAR 49151 5 LET T=0. LET W=0 10 FOR F=47672 TO 48000 15 READ A: POKE F.A 20 LET T-T+A'W LET W=W+1 35 IF To 922903 THEN PRINT "ERROR IN DATA" STOP 40 PRINT AT 10.3: "START RENEGADE TAPE 45 LOAD = CODE 50 RANDOMIZE USR 47872

100 DATA 221,33,111 187,6,6,197 110 DATA 221,110,0 221,102,1 120 DATA 221,78,2,6 0,17,0,125 130 DATA 237.176,2356,54,201,30 140 DATA 150.205.0.125.221.35 150 DATA 221.35.221.35.193.16 160 DATA 222,33,103,238,17,0 170 DATA 252,1,0,4,237 176,175 180 DATA 50.115 255 33 80 187 190 DATA 17,23,255,1,3,0,237 200 DATA 176,33,83,167,17,0 210 DATA 93,1,50 0,237,176 220 DATA 195 244 254 205 0 230 DATA 93 62,195,50 76 255 240 DATA 33,12,93,34,77,255 250 DATA 201,253,33,58,92,62 260 DATA 36.50.87.160.49.79 270 DATA 93.251 195.203.92 280 DATA 197.228.16.213.228.24 290 DATA 19,229,12,31,220,14 300 DATA 45 229 25 61,229,11

MARC DONNELLY, Goole

RF-BOUNDER

Infinite lives on the C64

Type it in the poke, save it, then load the game

10 REM RE BOUNDER 15 REM ACE Dec '87 20 PRINT CHR \$(147) 30 FOR FR= 14080 TO 14164 READ A. POKE F. A NEXT F 40 SYS 14080 50 DATA 32.44 247,32,108,245 169,19,141

60 DATA 134.9.169.55.141.135.9, 76 16 70 DATA 8,169,76,141,45,1.169,37,141 80 DATA 46.1.169.76.141 47.1.76.0.1.169 90 DATA 49,32 63 1 162 0,189,58,55,157 100 DATA 0 4 232 224,32,208,245,76 0 110 DATA 4 169 51 32.63.1.169.52.32 63 1 169 234 141 36 145 141 37 130 DATA 145,141,38 145,76,16,128,0.0.0

MR R GADD. Chellenham

GRAND PRIX SIMULATOR

Cheat for the Amstrad

On the Title Screen, Type in TRACK, then the letter of the track you wish to start

JASON YATES, Birmingham

LAZER FORCE

Choosing levels on the C64

When Lazer Force has loaded switch to the demonstration mode. When the demo is finished hold down the Commodore key and the keys 1 and 2 simultaneously. You will now be put strought on to a high level with & lives This will not work, however until the program demonstrates o level higher than

PAUL LAMARQUE, Birmingham.

STAR PAWS

Unlimited food on the C64

3 For 1 = 10497 to 10526 READ A POKE, I A C-C+A Naxi I 4 For L = 512 to 519 Read A Poke I A .C-C+A NEXT | IF C-3986 THEN SYS 10505 S PRINT "ERROR IN DATAIN" 6 DATA169,2,141 5, 64

76.1.82.196. 157.169.0.162.1.166, 32,166,255, 32, 189, 255, 32 7 DATA 213.255.76.215.8.76.32.8.169.96.1 41,186 23,76,0,16

R.MANOJ. W finchiev.

CLEAN UP SERVICE...

C64 - infinite lives

Enter and RUN this listing for infinite lives for both players

1 POR 8-558 TO 584 READ A POKE 8 A NEXT POKE 157,128 SYS 558 2 DATA 169, 59,141 40 3 169 2 141 41,3,32 86,245 3 DATA 169,31,141 207,1.96 169 185 141, 250 141 74 68 68

THE MASTER HACKER. Clywyd

GAUNTLET

ST - infinite health

C then

am

C64

othe god

0 (Sty

6.1

Load ST basic, then type in end save the listing. Insert your Gauntiel click A with write-protect off and type RUN. Follow the on screen prompts from then on

RICHARD MONTERO, Yeovil

See MONTHERO, Viscold

And T. T. W. 1997. 1, 177. 1, 187. 1, 177. 1, 187. 1, 177. 1, 187. 1, 177. 1, 187. 1, 177. 1, 187. 1, 177. 1, 187. 1, 177. 1, 187. 1, 177. 1, 187. 1, 177. 1, 187. 1, 177. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 187. 1, 1

430 r=EH20000:call c QUEDEX

Enter and run this listing for infinite units (when collecting bonus press fire to access the bonus

1 POR B-528 TO 554 READ A POKE B.A. NEXT POKE 157,126 SYS 526 2 DATA 169,29 141 40, 3 169 2 141 41. 3 169 3 141, 236,196,169,181 141 96 46 76,235 2

THE MASTER HACKER, Clwvd.

ANARCHY

Knock out the spots to sprite collision direction with this little routine. Enter and RUN the listing before LOADING the game

1 FOR B-379 TO 390 READ A POKE B.A. NEXT POKE 157 128 SYS 379

> 2 DATA 32,86 245,169,1 141 29 4, 96 206 202 32 76 162 124

> > THE

MASTER HACKER. Clwvd.



Every month the amazingly generous people who run the Tricks in Tactics section here at ACE give away software - not to any Tom, Dick or Harry, but to deserving classic. That means those people who have done a service to their fellow games players, by providing a tip, a map or a poke that has helped

This month Jefferson Thomas picks up Bobeleigh, Deflektor, Driller, Dark Sceptre, Phentom Club and Nebulus for his Spectrum. Why? Because his Indiana Jones map is the tip of the month, that's why. But there's more to come, Warren Cann receives Nebulus for his C64, Max. Harrower gets Leviethan for his Arriga, Chris Shaw wins Driller, R. Gadd gets e C64 Nebulus and Mark Donnelly gets Driller for his Spectrum

So what are you waiting for? With prizes like these you'd have to be STAPK STAPING BONKERS not to share your knowledge with the rest of us The address to send your masterworks to le-

TRICKS W TACTICS 4, QUEEN STREET BATH

and don't forget to state clearly your name, address and computer

BA1 1EJ

Wanted Don't know which games to tip imap or pole? We recken that the following games are going to cause quite a low problems. Stealth Flighter, Skale or Die. Nebulus, Sobaleigh, Driller, Buggy Boy.

orn-op tip within this month is Will Dawling, who gets Oriller to the Spectrum in return for his copious Spy Hunter tips. Where are the rest of you? Don't be sky - we love to hear from you. And what about some tips on Xenophobe?







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INTHE ARCADES

A bumper set of tips on Spy Hunter wins WILL DOWNING of Daventry this month's arcade tip prize; it you think you can come up with anything as good, get it down on paper and send It in NOW! it cotch up and overlake. When the road expands, move over to the left vecas (the van will follow) and accelerate inside. Your sconng continues while travelling in the yon so this means on easy 500-700 extra points (not to mention your weapons

3 Use oil-slick sparingly, one quick squirt is enough to send an enemy agent sixting out

4. Only shoot mustiles when the helicopter is about to drop a bomb. Shot enemy agents come to a dead stop, so be ready to swerve

5 Switchblades will not sprout their deadly spikes on curves Sometimes the enemy opents unwittently destroy each other. Anything explodes on contact with the Swiigh-

blade spakes, and it loses the spakes on the 6. The Mord Bomber destroys whotever he

hits and, on the water 7. Barrel Dumpers sail straight into each

8 Weapons Vans are impervious to all enemy weapons - but vulnerable to yours so don't shoot or sack them 9 On the water your steeding is as loose as on icy roads Sail slowly because Barrel

Dumpers drop barrels when directly in your poth and Dactor Torpedo can only fire if some distance behind you It also shoots backwards so if you have no hery oil-slick slow down and let it overtake then shoot it quickly. No more than two enemy boots will menoce you at the same time, except when you first join the river (as many as four may come at you) it you miss the boathouse back onto the

road, beware of an island in the middle of the niver poss if carefully on the right or skip

over it at high speed. 10 If you go from an xcy road to the water, stay there and bytees the boothouse Shortly after the island, the land undergoes on instant thow

back to green - with safe 11 Watch out for civilian vehicles in front of the von, it will swerve to avoid them. which may cause you to

12 Bucs - when your car talls back out of the wan (on the right-hand verge), you can drive straight forward through bees across water and over broken bridges - without any bouble, and rejoin the road at any time. This is best used at high speed and is good for locating a clear

down again? No points are scored for trav-

eiling in this way and The Entatoer comes creeping up the opposite verge and starts shooting at you when level (about a dozen shots are fatall. Watch out for the road ourying to the right and forcing you back onto the tarmac - there is no turning back after rejoining the road

13 if the helicopter bombs you while driving cross country', the game sessis itself and sountices your credit. A bonus derived from this is the elimination of The Enforcer and Doctor Torpedo thus making things a little

14. When in a bright green territory (see tablet, keep well in front of the weapons yan until the sharp curves. Allow it to overtake you on this sheigh and as the total straightens out again, the warning BRIDGE OUT - DETOUR ON LEFT appears Quickly drive into the van and you will be carried onto the bridge-verge When you reappear stay still and wait When The Enforcer stides up alongside, drive slawly away and leep to the son verge. You will he shot at, but harmlessly do not worry as you approach the broken gap because, as long as you keep to the verge, you will pass scriety across The Enforcer, however, cornes to a halt on the gap and gets left behind That should be the last you see of it - and Dactor Yamedo

The road's features are random, without sequences that our be memorised. The surrounding countryside however, changes have different features, their own weapons van and are of roughly equal length Toward the end, the road tooks into a dual comocewoy

SPY HUNTER

Territories:

1 Bright green - shorp curves just before boathouse short dual camageway 2 Yellow - sharp curve between bridges short dual carrianeway

3 Grey - mostly stroight and wide long dual aamageway 4 Brown - sharp curves before and after

bridge, short dual carriageway 5 Duil green - straight and wide, long dual carriageway

A/C 3 Weapan

II - Take left carriageway,
 III - Take right carriageway

Weapons A - Oil Slick B - Smoke Screen

Tips 1 ti, at the end of the timer countdown, you have reached a third territory without losing any cas or destroying any civilian vehicles, you will probably sam two satra stretch of road (but don't larget to slow back

2 While driving down a dual carrageway press the WEAPONS VAN (if still lit) and list

ROAD BLASTER

1. The green and sed bubbles are extra

2. When you reach the first lot of mines stay

in the middle lone 3 To increase your reserve fuel, fire at each orange car or motorbike once. This increases your multiplier by one every time. Once this reaches ten you will get more score which will eventually increase your fuel

4 Purple cars are indestructible

5 To catch the special weapon, wait till the jet flies over. Move over to the middle kme-

and this will avarantee a special weapon. 6 When you catch the narous code burner do not use if stronght away 7 The special weapons are limited. You get

about 50 rounds of UZ compan, three nutrous. exide burners, three Cruise missiles and a shield which lasts about five seconds \$ 21 you have tanks at the side of the road

stary in the lane you are in and you will not be blown to oblivion

Darren Winn, Exeter

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Ocean

A massive compilation of 10 complete sports games - including Konami's HyperSports, Ping Pong and Tannis Deley Thompson's Super-Test, World Senes Baseball, Pool, Chempionship Basketbell, Barry McGuigan's Boxing, Super

Soccer end m	gne inc	region	ASIDE
5tr580	882	ACE pres	Order and
Spectrum cass	12.95	9.95	A120S
CBM 64 cass	12 95	9.95	A1200
CBM 84 disk	_17 95	13.95	A120CI
Amstrad cass	12 95	0.95	A120A(
Ametraci desk	17.05	13 95	#120#1

WIZBALL

Ocean Use the combined powers of the collect magic water drops. Onginal

Version			Order code
Spectrum cada	7.95	0.25	A109SC
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CBM 64 dak	12 95	10.95	A109CD
Arrestract cass	8.95	7 95	A109AC
Amstrad disk	14 95	11.95	A109AD



TOP GUN

Ocean You've seen the movie now plan your own doglights. One and twoplayer action

Yersion	769	ACE price	Onser ande
Spectrum cass	7 95	6.25	A114S0
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US Gold/Epyx Collection of four stunning classics. Summer Games, Impossible Mission, Breakdance, Pitstop II 99 795 A105CC 14 99 11.95 A105CC CBM 84 cass

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Gremlin Blockbuster Ittle combining football management skills with exciting

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Spectrum pass	7 99	8.25	A1215
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TAIPAN

Advanced strategy game based on the James Cleveli novel NN ACEpies Onto sole 7 95 8.25 A 113SC 19 95 15 95 A 113ST Service Spectrum rass Attan ST disk



BALANCE OF POWER

Mirrorsoft A demending geme of strategy 29 95 24 95 A117ST 29 95 24 95 A117ST Atan ST disk Armas disk

STRIKE FORCE HARRIER

Mirrorsoft

em-up.			
Tester	No	ACE price	Ontercade
Spectrum case			A115SC
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SOLID GOLD:

US Gold A collection of two fantastic titles Infiltrator, Leaderboard, Gauntlet Ace of Aces and Winter Games Hours and hours of entertainme

W

US

DI Mir gra

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and **Sprint**

ien			Onder paid	
ectrum cass	9 99	7.95	A12280	Spe
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08 MASK

Nes

CB

Gremlin

ersion	1600	ACE price	Orderasir
Soectrum case			A10153
CBM 64 cass	9.83	7.95	A1010
CBM 64 dmk	14.99	11 95	A1010
Amstrad cess		7 95	
Ametrad disk	14 99	11.05	A101A



Amstrad cass

Oc Logotron Ingenious maze game, packed will with mind-bending puzzles. Onginal and Versit very compulsive Ace Reted 927 | Spe 7 95 6 25 A1195 CBH 9 95 7 95 A1105 ATE Vincian CBM 64 cass 12 95 10.05 A1190 ATRI 9 95 7.95 A1194 IBM 14 95 11.95 A1194 A184 CBM 64 disk

GAME OVER Imagine Exciting shoot-em-up testuring huge, evil guardians at the end of nach level Vassien





CBM SOLOMON'S KEY

US Gold Wizard coin-op game packed with

Version	300	ACE price	Orderal
Spectrum cars	8 99	6.95	A10lit
CBM E4 cass		7.95	
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Ametrical cases		7 95	
Amstred dak	14 99	11:95	A1048

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US Gold/Epyx dic attes Eight great sports citt diving, log 3ames

tiling, buil fighting, weight-lifting, salom skring, sumo wrestling, barrel imping and caber tossing! the Orderstale from 809 ACEptis Ordereda 8 99 8 95 A106SC 9 99 7.95 A106CC M A122SC spectrum case # A122CC 28M S4 case 6 A122CD SBM 64 disk

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Strategy and combal backed by yaphics you would not believe Topin Inp. ACE price Order code
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Really enjoyable Breakout clone

ched with with 32 lovels anal and ame M 927 Spectrum cass 7 95 8 25 A112SC M Districte 18M 64 cass I A119SC 18M 64 disk I A119CC Amstrad cass

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A compilation of superb (dies

including Ball Blazer, Eidolon, Knight Games, Highway Encounter PRP ACE price Order cade Spectrum casus

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ACE PINK PAGES

In these Pink Pages are the first of our regular Buyers. Guides to home computer hardware and software. The guide is intended to give you the infarmation you need to buy the right hardware and software at the right price. We ve listed details of 12 basic machines and their various models, plus consoles; and in the software section we've given the lowdown on 50 games we recommend.

Each month we'll be updating the information to keep you informed of the swings and roundabouts of prices and availability. We'll also be spollighting a particular area; look out next month for a guide to peripherals.

We've also got the first of our Reader to Reader pages; in here you'll be able to place your own small ads – free, grafts and for nathing. Is there a better place to sell your machine when you want to upgrade? In Reader to Reader you'll also find Adventure Helpline (a boon to all those stuck in a dark room with a goblin).

We hope the ACE Pink Pages will prove a valuable reference guide to anyone making a computer hardware or softwore purchase, and to thase seeking help from or contact with other readers. They're your pages; so please write in and make use of them.

The ACE buyers' guide is essential residing for anyone who is consider ing buying a new computer, whether is will be your list even floral, into the interior carrier, or you hope to upgrade your current system. We've compiled a lest of testimes end specifications for all the testimes end specifications for all the models putable for home use in the advantage of the properties of the prop

Before buying

Evan if a new computer is only a dearm at the moment, this buyon's gludo will make it clear just what's on ofter, and help you decide which system is best for you. But before you rush out to the shops there are two things you need to consider the property of the shops there are two things you need to consider the shops there are the things you need to consider the shops there are the shops there are the shops there are the shops the shops there are the shops there are the shops the shops there are the shops there are the shops the

Prailly how much you can afford to spend whether it's in cash hire purchase, or plastic money. Remember to keave yourself a bit of money/tradit over for software and if possible, for penpherals It may only be a ocupie of months before you decide you can't consi amy you decide you can't consi amy

longer without a disk drive or a

Secondy—and peal as major. Fairt —ahalf do you want to use the computer lie? Any you neally gong to learn to program? Do you sen contrily want to put you them accounts on computer of produce the company mediates? Do you want is stenus mone, a cames mone, or something fairt controls a bill of bein? Think carefully about these points bulley you but "thems nothing worse like being lumbered with a magatine half doesn't result.

The ACE Buyers Guide can't make your mind up for you, but we can give you the facts that will allow you to make a sampble decision.

Where to buy

- the riigh street chain store ons Currys, Boots, etc
 the independent contigulor
- a mail order company

• second liand

In the high street stores you should get a list price for your machine you should also be able to take it away with you emmadable? Furthermore many stores ofter attractive burnters gwing you be attractive burnters gwing you look of street goodes with the basic machine But the salespension behind the counter worth receives your winter that you will be considerable about the systems you with it ochoose between Able it is not always poor sible to have an in depth demonstration of the virusous trackings on these and he street all the states of the virusous trackings on the states of the virusous trackings of of the vi

In an independent specialist ahop the salesperson could well know the machines belter and be able to demonstrate them more fully but you might have to pay slightly more for the system.

III you buy on mail order you can't ol course have the rrachine immediately and you can't have a domo of it but you might come across a cheaper price. If you order sure you know exactly what componers you are gotting before you send off your money send a covering ratter with any money and keep copies of lifece tenters, and keep copies of lifece tenters, and keep note of the chequietPO number. If possible stack to a niad older com-

Beying a more second final rate advantage one final price as a secondary one final price as a secondary of the secondary of t

Agein, before you pay, check what even if you're buying from your bast fnend it would be no bad thmo to put down in writing what you'll pay to what Remember that you run

Setting up

Apart from the compuler itself, thera. need to buy in order to get your sys too easily be forcolled in the exure through this checklist now - you don't want to spend all Christmas waiting for the shops to open before you can load up your lavourse

e Pluga most miuros don't come complete with them. Nor do disk drives, lage decks monfors.

· Fuses: check that the plug has before you get it home. @ Leads: yas the micro may woll

you need to buy if separately? · Adaptor/tielling soukel it the more than one ara you sure that your power points can cope? An with three of four plug sockets on states that a micro will always use more power soukets than you

@ Y softler: olly handy if you're visron. A Y spiriter is a box which lits into the TV socket (on the TV itself) and will take both the TV input lead and the computer lead. You can then switch between one and the half an hour when you want to

Where to set up

waluh EastEnders

affluent only Basically don't set the a window (You won') get to see cables between keyboards/many ally too short to be mont than six nuhes away from each other and that if the kayboard ands up siting on the floor the call will double it's an ideal sleeping spot Don't spill callee (or indeed anything stronger) near your disks or the drive and it

Categories

We've Ined to molude details of all the market, divided into particular

· Memory this refers to the total

· Packaging it's worth checking upme ready packaged with a moni-

. Diskar does the machine use disks? If so how much do they hold disk draw built in or external? Are add on drives available? Is much

software available on disk? · RRP, all recommended retail · Display: many home-games mumps are easily hooked up to a television, and this can be the most upgvenient and least expensive option However all computers and save household arguments if

· Graphics Resolution indicates

Graphics

colous - RGB » sync

ble the higher the floures the bet ten. Palette size refers to the total number of uplours available on the machine Colours to the number that can be used on screen at any one time. Sontes and Scrolling refer to built in hardware features (partic ularly useful for games) rather than

. Sound, lells you what kind of sound what the speaker quality is with the MIDI standard for linking

· Herdware lets you know what the keyboard is fike - can you use it for senous purposes? talls you if mouse and lists the ports in to

· Software: gives you the low down on the amount and quality of software available for the machine at the moment in the various caleabout the level of buture support.

· Buying itps guidelines on what the bargains might be and where mation on your rights under quaran

Hardware

e Performance

Acom Archimedes

Models: Archimedes 305 310 and 310M

Package Keyboard mouse and drive, keyboard mouse drive plus monitor (colour or mono): 310M - M denotes inclusion al PC

512K Memory.305 1Mb

Acom ARM

Recommended Rela-£801 60

305 mone monitor £859 10 310 na marriot 310M no monitor) 310M monol

colour 12 inch high res. mono

■ Sound

Sound this Speaker qualify

■ In brief...

The Archimedes is at the

Hardware KEYBOARD IN keys programmable Models Master 128. Masier Compact

Package: 128 - keyboard plus monitor

partic o Itari

use ri pau d Compact - available in four packages (1) Complete system includ ing keyboard (with integral

disk drive), monitor and print (2) Keyboard/drive only (3) Keyboard/drive plus

mono montos (4) Keyboard/drive plus colour monitor

Memory: 64K main RAM 64K sideways RAM

Processor 65C12

Recommended Relail Price

128 £457 35 Compact

Mono system Colour system with orinter £1084,45

Disks

auto repeat tate. Keyboard has surpris

JOYSTICK MOUSE 3 bulton mouse

PORTS: RS 423 sonal # Centrones

Add-on drives 9 Perfermance

■ Graphics

640x258 mode 0

Colours modes 0 3 4 and

Mode 7 is a "leletaxt" text and block graphics mode. Modes 3 end 6 are lext only Spriles

Monitor output Monitor supplied

Compact yes (see Package above) Monitor aptions/Accm

Spaghetti lector

■ Sound Spiraker quality

Software

EXISTING BASE OF Game (Zavit)





9 Performence mont

Hardware KEYBOARO: 64 keys plus 10 luno

JOYSTICK MOUSE Non-Almi stan-

In brief...

Master series intended as lacis, with these two machines at the 'homey end of the range recommended as main use, as iersure software is not always converted to BBC format.

128 2 enhanced Acorn cartridge

couple of databases (from Minerval

CURPENT RELEASES: Ser above GAMES One arcade latin IACE Rated

MUSIC Again enormous potential SOFTWARE FORMAT Disk pro-

PROSPECTS Very good but not nec

Buylines BEST BUY PRICE As RRP SECOND HAND AVAILABILITY No.

MAINTENANCE One years guaran lee. Faulty mechines – roluin to doster

Centrarros compatible parallel printer # 50 way edge connector expansion phone socket @ Composite video @ RGB TTL @ joystick/mouse

Software

EXISTING BASE good but only because of BBC compatibility

CURRENT MELEASES Steady flow

PROSPECTS, good for education

per (not necessarily better) ver-sions of BBC B Inles

GAMES. The Master arcade scene's poor with much dating back to old Beeb days. The same goes for

GRAPHICS a law one or two of

Buvlines

MAINTENANCE. Within one year a

BEST BUY PRICE AS REP SECOND HAND AVAILABILITY

9 compairble Compact hee built in drak drive tucked under keyboard. Distinctive BBC brown and cream styling

Amstrad CPC

Models CPC 464, CPC 664, CPC 6128

Package Keyboard, monitor tape/disk_plus software (usually 12 games), joystick CPC 664 is no longer manufactured but may be available on special offer

from retailers in different Memory 464/664 54K 6128 1286

Recommended Refail

Price	
464 mona	£199 99
464 colour	£299 99
664 unavailable	
6128 mano	£299 99

Disks

Formel 3 mch lippable Capacity ISCK formatted per side

Add-on drives Amstrad CCI 1 Inst

■ Graphics

Reselution	Mode 1	320-200
	Model 2	640,200
	Mode 0	160+260
Potette	27	
Colours	mode 1	4
	mode 2	2
	mode 0	16
	Potette	Model 2 Model 0 Petellie 27 Colours model 1 model 2

need external power supply to use

In brief...

III Hardware

KEYBOARD, 74 raised plastic keys

JOYSTICK MOUSE Standard 9 pm



III Sound

· Performance

PORTS CPC 484 . PCB mdgs connector - Takes disk drive and parallel • 3 pm Din. RO9 with sync luminance • synr3 5mm stered sockel @ pyslick @ casselfs port @

· Centronos parallel printer · Add on disk socket @ Joyatick @ Cassatte oor! ◆ RG8 with sync luminance ● sync 3 5mm stereo socket •

■ Software

EXISTING BASE Good even a not

GAMES Good but some convened

MUSIC: Reasonable number of titles.

BOFTWARE LOADING: Tape

PROSPECTS Uncertain After meal

■ Buvlines

GEST BUY PRICE CUTTY & 18

SECOND HAND AVAILABILITY

MAINTENANCE One year's guarantee Faulty machines letinm to deater 664 statutory rights only

Amstrad PCW

Disks

Formal	disks
Formal	3 incii lippable
Capacity 181	OK formatted per side
	(8512 Drive & 9512)
Fermal	3 inch double sided
Capacity	720K liptmistred
	Disks about \$3.00
Add-on drives	from third party

Add on drives have been produced to take S 25 Inch drake. CP M forms) can be jurgalarred le The PCW muchines

Graphics

TV	no no
Menller	supphed
	17th notice that the state of t
Description	750-550

PCW8256 PCW8512

Package:

8256 - keyboard monrior Locosciipi 1 word

8512 - as 8256 above but with two built-in drives 9512 - restyled keyboard

disk dilve, daisy wheel piinler Locoscipl 2 word

Processor:

Recommended Relall Price

Performence

Sound Sound chip Stereo output

8 Performance besos only Some third party sound nettancement modnles available

In brief... The PCW range was

designed as a world processing machine rather Than a gential purpose computer Non-word producad alter sales rocketed Not recommended as a games machine

Hardware

XEYSOARD Includes extre keys for



JOYSTICK/MOUSE Not supported

PORTS One expansion port takes SPAGNETTI FACTOR: Low Coly one ping needed Cable from keyboard to monitor two cables from monitor to bundled printer

Disk drives one sel "verticelly" in monitor casing to right of screen.

Short monitor to printer cable meene prints: must be placed to lell of monito: Monitor to keyboard seble meene keyboard sits neigrally 6 inches to a foot in

■ Software

EXISTING BASE not wide but

CURRENT RELEASES: yery low

PROSPECTS would be poor but for launch of 9512. Revval will depend

GAMES: Arcade Irilea ere very rinmerous but again the renge is

GRAPHICS: yery few but some fow-

MUSSIC, onne - merbines not SOFTWARE FORMAT: Disk only Good for smell business applications

Buylines

MAINTENANCE One year's puerence Fanty mechanic column

BEST BUY PRICE. As above Generally not sold below RRP

SECOND HAND AVAILABILITY

Apple Macintosh

Magnitosh SE Models: Macintosh II

Package Manilos with built-in cou and disk drive.

separate keyboard Memory: 1Mb

Processor:

Motorola 68000 Motorola 68020

Recommended Retail Price £2,294 25 upwards £4,329.75 upwards

Disks

Price Around £3 00 800K Capacity Software Add-on street

Fest and rehet/e but wetch cut for US-

■ Graphics Resolution SE

Colours with polous montes: - 15 to 256

Monitor enpolise

■ Sound

Sound chip

Speaker quality MICE Third party interfaces everleble

Channels Parformence

■ Hardware KEYBOARD Snephed 81 keys

JOYSTICK MOUSE- Joystick not

PURIS

SE 2 Apple Deskipp Bus connector ® 2

RS232 RS422 senal ® External disk
drive ® 36 pm Exec-Dis expansion stot

SCSI — D8 25 connector ® External

■ Software

EXISTING BASE Wide sange of appropriate saids in untrailly all helds CURRENT RELEASES adequate lengely of US ongin and in the business or DTP field

GAMES very few stoode games but

MUSIC Very well emprorised for MIDI softwern - but it's expensive stuff.

SOFTWARE FORMAT: All software SOFTWARE LOADING Orick and

PROSPECTS Excellent especially in

■ Buylines BEST BUY PRICE There isn't much act a discounted market in Macs, you In brief...

A very expansive up-market machina for those keen on desk lop publishing, wimp systems, and up-market software 11 you can afford it, great - but remember that Games are Impostly Imited to icon-driven adventures (little aicada action aptiwaie available). Good for MIDI musiciens, but be prepared to pay through the nose

SECOND NAND AVAILABILITY

Reasonable but not exectly cheap MAINTENANCE One year's guarantee

Apple offers Applecare - Insurance you liake out to cover cost of repert effet guaranten has lapted



Atari ST

Models:

Atan520STFM. 1040STF, Mega STs

Pockoga: 520STFM and 1040STF keyboard with built-in disk drive

Memory: 520STFM 512K 1Mb Mega ST 2 or 4Mb

Processor: Motorola 68000

Recommanded Refall

Prica 520STFM

Discs 380K lormalted Capacity

Price of Blank Dieks about \$3.00 Add-on drives

■ Graphics

Resolution high res \$40,400 monochrome in high res

4 colours in medium rais 18 in low rais

Monitor autput RGS/monachroma Monitor supplied monocirome or colour SM124 high

@ Performance Scrolling

High resolution is only svallable on mono monitors; medium and low resolutions are only available

M Sound Bound chip AY 3-8912 Storeo output

M Hardware

KEYBOARD 96 keys moluding 10 function keys. Full travel keyboard JOYSTICK/MOUSE Joystok ports

PORTS MIDI out (5 pm DINI a MIDI in (5 pin DIN) # Audio out #

In brief...

Excellent as a general purpose home machine for games, small business and productivity it's also the number one choice for MIDI musicians The ST's price could still give it the edge for artists

Software

EXISTING BASE Though on the CURRENT RELEASES Most major

PROSPECTS Very bright indeed

Could soon rivel Spectrum and C64 GAMES Range of arcade titles ran't

MUSIC: excellent Many companies producing sound aditors, samplers synths are

SOFTWARE FORMAT Disk only SOFTWARE LOADING: A 380K

Buylines

MAINTENANCE One year a guaran

BEST BUY PRICE You won! get

SECOND HAND AVAILABILITY
Yes look in classified ads of mage

The ST is an attractive looking mechine with stanted function keys above armiterly slyled state include a disk drive in the slife of also taken up by other manning-

A G B SCOTLANDS PREMIER COMPUTER CENTRE 19 Fifrick Sovern Town Centre, C

MIDI

= Performance

PROUDLY PRESENT

ATARI SJUSTEM ATARI 1040 STF_ ATARI WECA STS ATABLIZARE PACE

Commendary AMISA ASSOC 490.00 Inc Val Dehixe Paint

All our Comporer 8 Games Machine come with Ires egitwers Cheekeel the Iresoles you get with the flat below

Alasi STIT: s Cinta, 5 Priblio Demain Olska, Neochroma, i al Word, Dr. State f. Woose Mrr. OR 8 3 Came Crastalment pack (Thise may var). All the control of the control of

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MEGABYTE is about to celabrate it's third Christmas and to mark the occasion we are doing the old place up a bit. To help us give you a batter service and to giva us more room to display SCOTLANDS largast range of software, computers and peripherals. We are launching the new look MEGABYTE with a bang. There will be a carrieval of compatitions and prizes. Try

your Skill at becoming Scottands best gamesplayer The company with the high scoring joysticks EUROMAX will be there displaying their range of joysticks and controllers and giving out prizes to the sharp shooters

Top six scoras of the day win the goodies if you are not so hot on the joystick come along anyway you could win one of twenty spot prizes at software for your computer just tor being there. Enter the Quiz Competition, test your knowledge and win a prize We'll see you there on Saturday the 12th and Sunday the 13th, of December

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Star NL10 Ponter

+ Interface Printer Cable £245.00



TELEPHONE 0236 738396





Atari XL/XE

Models: Atan 800XL (no longer manufactured) Atan 65XE, Atan 130XE

Pockage 800XL retailers' own — look for keyboard plus tape deck,

joystick and software 65XE Alari Starter Pack includes keyboard tape deck joystick, software (10 games) 130XE Ataii Starter Pack

Disks
Format
Price

■ Graphics

Capacity

Menitor output Menitor supplied includes keyboard tape deck, joystick software (5 games) Memory: 800XI 64K

Memory: 800XI 64K 65XE 84K 130 XE 128K Processor: 6502

Recommended Retail Price 800XL none 65XF 9129 99

Options No Aten dedicated montor manufactured. Use TV or montor with composite video oxiguil e Performence.

Spriles Scrolling Speed

Sound Sound Sound Chip Aten c. Speaker quality Out

Speaker quality Output the TV Stereo output No MAD Not supplied Their perty efficience everlable. Dbennets 4 • Fierles-mance Good

₩ Hardware KEYBOARO 62 keys inducing some special function keys for BASIC commands

JOYSTICK MOUSE Standard grystoli.

PORTS Flore stot • 1 yoystick • edge connector • marvior

n brief...

Once the choice of the dedicated arcade games player that arcade machines powered the use of spries and quality sound. In their later configurations they remain attractive purchases for the wealth of existing software, but support is fading very rapidly and the outlook is own.

Software
EXISTING BASE. Good bull long in the

CURRENT MELEASES. Thin on the

GAMES: Arcade range is of high quality Adventures poor to middling

the market

SOFTWARE FORMAT: tape or disk
Disks are quick but tape software can

MUSIC Well supported in the area

PROSPECTS. Not believe from that

Buylines

BEST BUY PRICE

BOOKL shop around a machines are now scarce

65XE Distant is offering the Starter Pack at Cox de

SECOND HAND AVAILABILITY: Outso

MAINTENANCE: One years guarantee





Commodore Amiga

Models Amica 500

Package: keyboard, with built-in disk drive. A1000 is will depend on different deal-

er policies Memory:

A500 512K A1000 256K 1024K

Processor: Motorola 68000

Recommended Retail Price A500 £499 99 A1000 none - discontinued A2000 £1236 25

■ Disks

Price

■ Graphics

Paietta Colours 4096 m hold and modify

evalable for ASOS only at £24 93 Menha sulput

Monster supplied Options Commodore ALDSI (415349.99)

Very last with notif software to be re-ased ander some circum stances and offers powerful windowing capabilities, white block image

transterror (biliter) epoeds up large-scale graphice work encomously ■ Sound Sound chip Commodore qualitim chip Stereo dalput Yes

s Performance Sulft-in teat to speech synthesis, S octavee, programmable waveforms.

amplitude and trequency modulation.

■ Hardware KEYBOARD 94 key 10 function keys

JOYSTICK MIDUSE Mouse supplied as

PORTS: Two systek-mouse & Audio

■ Software EXISTING BASE Small in competition

CURRENT RELEASES: Brommitte to

GAMES Areado products not yet ap to advertures are available but they are

MUSIC: Potentially Superb Little MIDI

SOFTWARE FORMAT Disk only

SOFTWARE LOADING: A noisy process PROSPECTS Good but A500 needs to

■ Buylines BEST BUY Not at present sold below RRP although 4 can be worth checking

SECOND HAND AVAILABILITY Limited as yet

MAINTENANCE Wilton guarantes



In brief...

Stunning specification Despile initial uncertainty. assured Allhough over UK to date, overseas sales (particularly in US) are high An excellent machine los those who can allord one

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CBS Computers, 17 Eversley Rd, Bexhill.

Commodore 64/128

Models: C84 128 128D

Package. C64 and 128 keyboard plus C2N tape recorder plus accesones Jaccording to individual dealers). C128D knybpard

Memory C64 64K, C128, 128K; C128D, 128K

Processor: C64, 6510 128/128D 8502 plus Z80 for use in CP/M

Recommended Relad Pilce C64, £159.99 £179.99± £128 £199 99 stand alone £229 99 with C2N £249 99 with C2N + software C128D £399 99

† according to individual dealers' packages.

III in	128D only
Performance	

Two disk drives are commonly avail-

III Disks

Most titles available on dek

■ Graphics

1128/128D as 54 in 84 mode plus

Note Altribute system phone more Protetions on number of colours displayable to

28/1290 RGB for 90 column display Moniter supplied

III Sound

Speaker gnality

■ Hardware

JOYSTICK MOUSE Provision for two

In brief...

The 64 Isan excellent games machine The 128 and 128D can be configured for business use using this CP/M standard and giving access to a vast range of business and ullfly software 64 is a particularly difficult machine to learn programming on due to outdated BASIC

standard swetchs. Mouse not supplied

PORTS 2 joystick # aspartsion # cas-



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ST TO RS222 MODEM LEAD (2 menus)	

18 CROWN CLOSE, SHEFRING, BISHOP'S STORTFORD, HERTS CM22 7NX

■ Software EXISTING BASE. Excellent Only tyalled by the Specialin but in many

CURRENT RELEASES. Sall pouring out GAMES Arcado action second to mone

GRAPHICS Good salection - quality of graphics means that programs can be

MUSIC. Good wide range of sound will tone some samplers. Many MIDI utilities

SOFTWARE FORMAT CEATER - tros

SOFTWARE LOADING Slow as always

PROSPECTS Supply will eventually a

Buylines BEST BUY PRICE Old style C64s dat

SECOND NAND AVAILABILITY Good

MAINTENANCE Under gostantes

Reliable and pretty last hard disks of

Graphics Graphics are not provided as standard

on PC machines, although nowadays necessary add-on boards already Installed There are three common

CG& (Colour Graphics Adapter)

Coloute 4 in low res mono in high res CGA is the most common PC display

EGA (Enhanced Graphics Asiastor) Both CGA prophecs modes plus high res Normally fitted as appraise to basis machina, but comes as stendard on

Resolution Coloura

These are the three most cammen display standards, accounting between ty in production, bull other adaptors do exiat. Boying second hand you may

Display Monitor putput Monitor supplied. With most packages

usually supplied or available

■ Sound Sound chep Nove as such - road direct Sounder modulation

Normally RGB

IBM & compatibles

Disks Mossly 5 25 Inch Capacity Almost always 360K formalised

Goel Computer Services

The Complete Computer Store 45. BOSTON ROAD, HANWELL, LONDON W7 3SH, TELEPHONE: 01 579 8133

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Model: IBM's PC is the origin nat. The many clones include Amstrad's PC 1512 and 1640 series, Tandy's 1000EX

Spectrum Bandwell 32, etc. will generally apply to most IBM compatibles unless partic ulai liders are made. Il vou are thinking of buying a PC or compatible check all like

salient details with dealers Pockage Depends on manufacturer Amstrad supply a machine with monitor, with or

without haid disk. You can buy The bare bones or the whole

Memory: usually 512K-540K Processor: Inial 8088 8088 or variants

Recommended Relail Price From around £400.00 for the for log-of-the range clones (with hard disk polous monitor etc.) IBM machines them

selves are considerably more

Hardware

KEYBOARD All models use raised

stick standards exist. IBM (analogue) and

Software

EXISTING BASE Visit CURRENT RELEASES. Sht pourte out

GAMES Cheaper machines has mean number of EGA games with superior

In brief ...

all round machine, but the PC still betrays its business ongins. Increasing number of games software releases. but lew of these are of the com-op arcade vanety Definitely not to be consid ered if entertainment is your

Superb value If you want an

MUSIC. Fae selection of MIDI packages

■ Buvlines

SEST BUY PRICE At more package: even boller barggins can be had from

SECOND HAND AVAILABILITY PCX

MAINTENANCE Return to dealer if

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Disks

Formel mostly 35 inch a few 5.25 II Price of Glank Disks about £3.00

e Performance reasonable MSX

■ Graphics

Resolution		256×192
Palette	MSX I	
	MSX 2	
Colours	MSx I	
	MSX 2	
Display		
TV	9705	
Manitor outp	ul composite	wdea

Monitor supplied

III Sound

MIQL third party interfaces available

a Performance good Yamahas CX5M was designed with musical

In brief...

Main strength of MSX is in its implementation of arcade games There is a very active user group that parbally compensates for lack of industry support Despite the attractive discounting of some models, the pur-

chase of an MSX machine involves a high degree of risk with regard

■ Hardware

KEYBOARD Generally standard JOYSTICK-MOUSE Strodard to-

PORTS Expansion bus 4 carbidos

Software

EXISTING BASE reasonable twill

CURRENT RELEASES: yery few

GAMES some good areads Idles

well implemented but advertures are lew and lar between

MUSIC Yemahe s now discontinued

SOFTWARE FORMAT Tape disk or

■ Buylines MAINTENANCE One year's guarantee Return to dealer if faulty

BEST BUY PRICE MSX 1 can be

SECOND HAND AVAILABILITY.

MSX is not a computer as such, but a standard design incorporated into a number of computers manufactured by a number of (mostly) Japanese

companies Models: MSX 1, launched 1985

Package:

no longer manufactured, some models still available at knock down prices MSX 2 is current version but machines not widely available in UK

keyboard only Some MSX 1 models can be found with tape deck and Memory: MSX 1 - 32K-

Generally

64K MSX 2 - 128K

Processor: Zilog Z80

Recommended Retail Price None for MSX1 MSX2 - £150 plus

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Sinclair Spectrum

Models: Plus (48K and 128K) Plus 2, Plus 3

num-

985

fawn.

sacrally lest and reliable. Some bithisma may area with commercial solu-

Pockage Keyboard and built in tape/disk, plus, my

stick selection of software Memory: Plus Plus 2 128K

Recommended Refail Price

Plus none, shop around Plus 3

Disks

Performance

(Plus 3 only)	
Formst	3 inch Republik
Price	Around £3 00
Capacity	180K formatted per sub
Sohwarn	Little as ye
Extra drivas-	Not ve Lavariable

Graphics

Only 2 colores can be used within only

Ball pixel square Limits graphics

Monitor output Optroits No dedicated Amsterd Service montor but any RGB nucible

Despris cleves programming the Spectrum's display still compares nifevarrably with both the Amelrad

■ Sound AY 3-8912 Speaker quality

Plus 2/3/128K - sonnd has never been the Spectrum a strong point, and few

In brief...

The Spectrum is primarily a games machine and should be bought only as such it is unsuitable for business use with low memory capacity and only a 32 column screen display For productivity (se. graphics and music type applications) use, it is not really sophisticated enough for senous projects. Utildies fair but senous users will want to upgrade before too

Spectrum software littles make much offort in this area

■ Hardware KEYBOARD: The Spectrum Plus key

resed hard plastic keys. Unlike the olde model 4 can be used more easily for

JOYSTICK MOUSE Non standard on all abin Compatible psystrck included in Plus

PORTS 2 projek # RS200MH a RGB

rondor @ Audio @ Numano keypad @

Software

CURRENT RELEASES Most maior soft

GAMES: A huge number of arcade titles

GRAPHICS Farr selection some of

MUSIC A couple of MIDI interfaces

SOFTWARE FORMAT Plus - tape uting arternal lape deck, Plus 2 | Japa standard has been assistanted Disk soft-

PROSPECTS. New releases will below) grows. The user base will however

Buylines BEST BUY PRICE PLE CEN now by

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lock at around \$50. Curry's is offering

SECOND HAND AVAILABILITY Good found sprond-hand. If you re unit interested in playing pares and door roled the namery buyboard, it could represent a good investment Enacra that you get the 48K model - liters is no cartes till models, which are quie useless for running performantly software

MAINTENANCE All Amstractord Specimens have a year's quarantee II

ularity in UK Secause of the Yes to

software is likely to remain expen

GAMES: good range of arcade-type software. Some arcade adventures.

HHEIC-

SOFTWARE FORMAT

■ Buylines

BEST OUY PRICE: As RRP

SECOND HAND: Not at yet

A reasonable buy # a con-

sole is what you want

Interesting too, because we

may see more add-ons from

Japan thal give it extra

power However, at the

moment, nearly all software

is Japanes in origin and this

is not to everyone's taste. It

remains to be seen if it will

receive any third-party sup-

In brief...

Manufacturers

Disks Not available

Graphics Resolution Palette Display

Manitor options

■ Sound # Performance Good sound effects or

in brief...

Japanese software base not as good as Nintendo's, but what counts is how many Mies reach UK Masterfronio have given strong support to machine so prospects are reasonable

Models: Atarl 2600

Aleri XE Video Game Console Atan XE

Pack pae

2600, console plus software console, soltware XE GS. ognsole joystick, additional keyboard, light gun, software (3 games)

Recommended Retail

XE GC £119 99

■ Hardware

PORTS: 2 game controllers e car Robust casing Not designed for Nature expansion Not a true com-puter, recommended as games console only

■ Software EXISTING BASE:

CURRENT RELEASES well-sup ported by LIK distributor Masterronic PROSPECTS. good it support by Trons and parent company Sega

GAMES: wide sclection of arcade lines generally considered to be of high quality. No adventures Bulk of releases currently contined to bot versions of Sega corn-op games. GRAPHICS

MUSIC

Buylines BEST OUY PRICE: As RRE

MAINTENANCE: One year's guarantee Back to dealer

Atari consoles

Disks XE only see Atan XI, for distants

Graphics Resolution Officially 320x192 I 60x30 or Display

Monitor supplied

■ Hardware

KEYBOARD Only as an extre on the XI JOYSTICK MOUSE At machines take

Games System

£49 98 ·

PORTS 2600 game controller TV car tradge slot # VGC as 2500 with socket

Software EXISTING BASE. Vast Systems are romanitise with all old Aten console

CURRENT RELEASES Softwark to MA

GAMES Excellent arcade games

In brief...

The Atan range of consoles represents good value in terms of price and volume of software available. But note that the 2600 is slucily a games console while the VGC and VGS can both be upgraded to be used as

compulers

MUSIC Hardly arty SOFTWARE FORMAT VDS - carindos tage or disk (if connected)

PROSPECTS Not much better than

■ Buylines

BEST BUY FRICE 2600 check out

SECOND HAND AVAILABILITY Good MAINTENANCE Manufacturers (Water

tee Any problems - return to dealer

Nintendo

Nintendo Entertainment System

Package. Standard version console

plus game controllers, plus 1 game (Super Mano

Deluxe version - console, game controller, light gun. ROB robot, two games

Recommended Relall Price

Standard model Deluxa modeli

■ Disks

A disk system is available in Jepan coing

■ Graphics Dundlay

Monitor options not vel supported Felelite

■ Sound a Performance includes speech syn

Forts: RF TV video # audio

MAINTENANCE: Manufacturer's

Additions of light gun and robot make this a suitable machine for younger children No! a true comrules recommended as games

Software EXISTING BASE Huge in Japan

CURRENT RELEASES

PROSPECTS Good but rate of

Package console plus light gun, game controller and 1 game (Hang On)

cartndge

Software larmal

Recommended Retail

136 Advanced Computer Entertainment

SOFTWARE BUYERS GUIDE

There's not much point in buying a computer without getting some software to run on it. And since this is the testive season we're presenting you with our selection of 50 games that should keep you worm with excitement this winter.

There's something here for everybody, from the megalomoniacal strategy of Bolonce of Power to the sheer orcade playability of Bubble Bobble.

Have tun!

AIRBALL

Microdeal & Alan ST & £24 95dk

Multi-objected three dimensional arcade adventions the lowers premising to the Ultimate style but is yearn altered in terms of graphic defails and presentation. You as the arbait in operation must neglected counters and report for it of various obstacted and its property of the arbait Amount standing rendered in a popular gene.

ARKANOID

Irtegree ● opectrum £7,85cs ● C64 £8 85cs £12 95ds ● Americal £8 95cs £14 85ds ● Atan XC/XE £8 35cs ● Atan \$7 £14 95ds ● MSX £8 95cs ● IBM PC £19 95ds

Converted than Alkahad the contept in to sun the best version of the closes Breakout Single in concept the player controls a birt all the base of the screen whiching it left and right The object is to keen a count teel in older beautiness.



This bast to destroy formations of bedist. This tips half of the screen Elements is the bodds and move on to the next of the screens. Clever ectin finally consideration to the addisonlesses An extended comes out to be to the edischarge of the same than and some only analysis of ASI, a liquid which also buildle up the difficulty lever more or addison.

BALANCE DE

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you'll lose a life Bonus bosins gises sons at the end of each feed help vathe pace, and those lough gaps real keep you coming back for more thing with graphics, great music — and its e-

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THE BLITTER END...

Thanks for the melody...

Bach is probably sprining in his grave — Weshid Music have come up with a program for the Ansistad frat church out moledors in three part harmony ad infinition. It any of them sound promising just hit a killy and rifl just their down on your printer in updimentary interuscryal form. Then all you have to do is add a copyright notice post it to John peel wast to them thongs to foll in and on one will seep share.

Programme Bisis ornes clues to have taken over seven years to develop Mastercongoiser the program composer in any key and in offerent officer—jee valence colleges and another. If clues program demonstrate insolver refelligence. Sen Mastercongoise demonstration machine centerly within the birth acroses with the paralage Control Mestern Macro. TS desch Read. Westell Science Abectlershire. ABS BMR— but at EMP to the but version (E15 tils a stimmed down existen) if the reactive control is a zono.

Better Blitter

Jez San author of Banhaid vector graphics het Staryfeler took inne off from his games soon ta-Appear (but a syll unifflied) sepull to phone us and point out a king sized ODPS in ACE issue 3 3 appears; that the Aming bitties column in the Upgrade Stakes treature should have been nivice. The hight if a catually was groung if an attogration more impressive showing. OK well come clean on this one! Was + the 3 becombined event

Blankety Blank

A handle of gamesplayers have been having



bouble with their Amspad deks of Gaunder. The disks in question had their Gaunder tables stock on rather clumsly and on doose inspection proved to have. Baseldo Bend tables das in The Advendages of 3 underneath Sp did the disks have the wisong game on them you sek? No advantly they were hotely brank. Concuses and currousse.

a Thanks to ...

This month the ADE team take their halts off to Tim Moore (Liberator ST Solomon's Rey and many offers) be a giest this ST Interactionary united that should come in very handy indeed. Its Burtley for some little photos at short inchoi-Bath Computer Shack to their help with cashes issues and Detth Lebsure of London without whom Ancake ACE would be impressable.

PR problems

Many software houses here PR companies to handle their publicity to them And many PR companies handle more than one software house Headlines for instance took after CRL and Martech – among others. So perfusor we shouldn't be too supprised.

that one time moting a press telease came in telling us all about the fallest CRL game — on notepapin headed Martech Or is the just the first stage in a missive amalgamation? We'll have a bottle idea when we get the next press release.

Gury Lineker fires in to start Greetlin's promotional push for the biotoputer game and browl game testing his name. Gany's Bown gash-less so far this season for Borssiens will this affect sales of the seasoner?

Next month.

ar up the post-Xmae blues wit

- CENSORSHIP could they dut game
- the complete business on GAWES
 - ATURN

 a review of the incredible QUANTUR
- reviews

 an interview with the President of Ja
- an Interview with the President of Jap arcade glants CAPCON
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 a frenchant LOOK BACK AT 67 by a major
- industry figure PLUS all the usual reviews, news, solventures and letters.

Funny photos

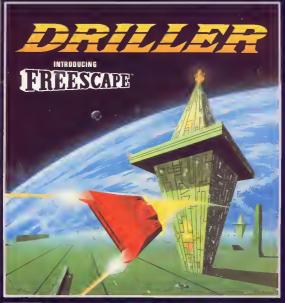
It's been Lets send ACE some busine photos of women month his morb; it deserns in the led carries some very unplassant screenships of licentimestelled second state by the Whitechapel muritiser for sames on publicity) and Whitechapel muritiser for sames on publicity) and bus blue country some land digitated pics of the spacebably named Tria. Small sent in by a read or of pecular states in a coince of cities very peri hoverees is the one of set styled 51 blues or Justice 18 proport assistant (joint authorics or Justice 18 proport assistant (joint authorics or Justice 18 proport assistant in the Victorian



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